# About this User Manual

This manual contains all information you will need to initially install and operate your new TV.
Also read the help texts which are being displayed at the bottom of the screen.

*If this instruction manual does not give an answer or if 'Troubleshooting' does not solve your TV problem, you can call your Local Philips Customer or Service Centre. See the supplied Worldwide guarantee booklet. Please, have the Model and Product number which you can find at the back or the bottom of your television set or on the packaging, ready, before calling the Philips customer support service.*

*Model: 32-37-42PF9531/79-98 - 50PF9531/69-79-98*
*Product No: .....*

English

Français

中文

عربي

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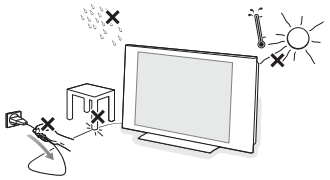
# Safety warnings

## General

**Do not insert the power plug in a wall socket or hang the TV to the wall before all connections are made.**

• Place or hang the TV wherever you want, but make sure that air can circulate freely through the ventilation slots.



• Do not install the TV in a confined space such as a book case or a similar unit.
• To prevent any unsafe situations, no naked flame sources, such as lighted candles, should be placed in the vicinity.
• Avoid heat, direct sunlight and exposure to rain or water.
• The equipment shall not be exposed to dripping or splashing.

## Care of the screen

Do not touch, push or rub or strike the screen with anything hard as this may scratch, mar or damage the screen permanently.
And please do not rub with dust clothes with chemical treatment.
Do not touch the surface with bare hands or greasy cloth (some cosmetics are detrimental to the screen). Unplug the TV before cleaning the screen.
When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaks. Do not use acetone, toluene and alcohol because they cause chemical damage. Do not use liquid cleaners or aerosol cleaners. Wipe off saliva or water drops as soon as possible. Their long time contact with the screen causes deformations and colour fading.

## Stationary images on the TV screen

(Only for PDP displays)
A characteristic of Plasma Display Panels is that displaying the same image for a long time can cause a permanent after-image to remain on the screen. This is called phosphor burn in. Normal use of the TV should involve the showing of pictures that contain constantly moving and changing images that fill the screen.

Examples of stationary images (this is not an all-inclusive list, you may encounter others in your viewing):
• TV and DVD menus: listings of DVD disk content;
• Black bars: when black bars appear at the left and right side of the screen, it is recommended to change to a picture format so that the picture fills the entire screen;
• TV channel logo: present a problem if they are bright and stationary. Moving or low-contrast graphics are less likely to cause uneven aging of the screen;
• Stock market stickers: presented at the bottom of the TV screen;
• Shopping channel logos and pricing displays: bright and shown constantly or repeatedly in the same location on the TV screen.
Examples of still pictures also include logos, computer images, time display, teletext and images displayed in 4:3 mode, static images or characters, etc.

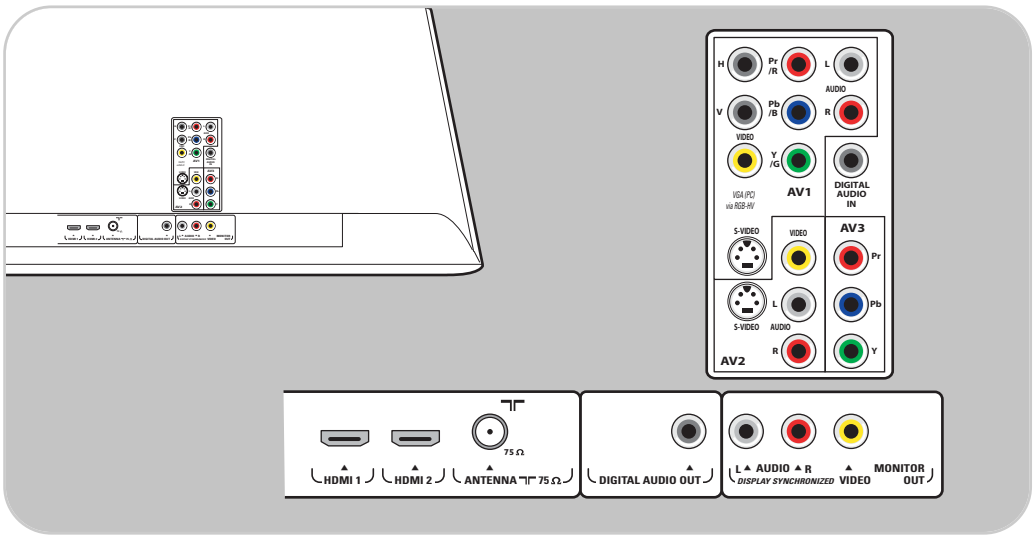
## Before you start

**Warning**: do not insert the mains cord into the mains at the bottom of the TV and in a wall socket or hang the TV on the wall before all connections are made.

Before you switch on your TV, connect all your peripheral equipment. See To make video and audio connections, p. 37.

## Overview of the rear connector panel

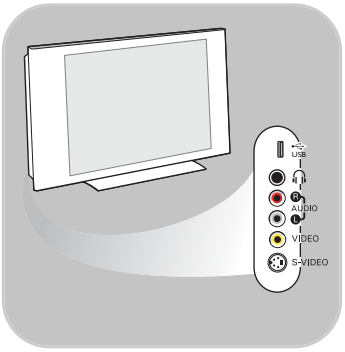
There is a wide range of audio and video equipment that can be connected to your TV. See To make audio and video connections, p. 37.




**AV1** can handle YPbPr, S-VIDEO, RGB+HB or CVBS and Audio L/R;
**AV2** can handle CVBS, S-VIDEO and Audio L/R;
**AV3** can handle YPbPr and Digital Audio;
HDMI 1 and 2.

**Supported video formats**: 480i, 480p, 576i, 576p, 720p, 1080i.

**Warning**: disconnect all power sources before making any connections.



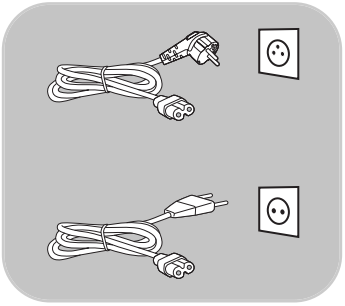

## Overview of the side connector panel

- To connect a camera, camcorder or game, see To make video and audio connections, p. 37.
- To connect a headphone, see To make video and audio connections, p. 37.
- To connect a USB device, see Multimedia browser, p. 32.

## Connect the antenna

◦ Insert the aerial plug firmly into the aerial socket ⊓ at the bottom of the TV.

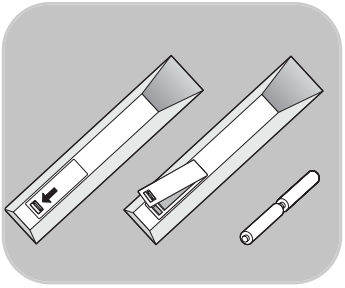
**Tip**: for best quality use the suppressor cable supplied.



## Connect the mains

◦ Insert the mains cord supplied into the mains at the bottom of the TV and in the wall socket.

**Warning**: verify that the mains supply voltage corresponds to the voltage printed on the sticker at the rear of the TV.



## Remote control

◦ Insert the 2 batteries supplied (Type R6-1,5V).
Be sure the (+) and (-) ends of the batteries line up correctly (inside of case is marked.)

For most keys pressing a key once will activate the function. Pressing a second time will de-activate it.

**Standby**
Press to switch the TV from or to standby mode.
When switched to standby, a red indicator on the TV lights up.

**Attention**: the TV is never powered off completely unless it is physically unplugged.

**TV** Press to select TV mode.

**DVD STB VCR AUX**
Press to select one of the system modes in which the remote control can be used.
See Audio and Video equipment keys, p. 48.

**DEMO** Press to switch the Demo menu on or off.

**Colour keys**
- When functions are attached to the colour keys, the colour keys are shown on screen.
- To select a page in Teletext mode.

**OPTION**
- To open and close the Quick access menu which contains a few frequently used options, like Picture format.
- When in teletext, press repeatedly to enlarge the teletext page display. See Teletext, p. 36.

no function

**Cursor keys**
Press the cursor keys up/down, left/right to navigate through the menus.

**OK** - To activate a setting.
- Starts playing content in the Multimedia Browser application.

**BROWSE/MENU**:
To open and close the main menu. See How to navigate through the menus, p. 11.

**Teletext On/Off**

**Volume**
Press + or - to adjust the volume.

**Mute key**: interrupt the sound or restore it.

# Use of the remote control RC4401/01 (Continued)

**+P- Channel selection**
- to browse through the TV channels and sources stored and marked in the Favourite channels lists;
- to select a page in Teletext mode;
- to quickly browse through the lists in the menus;
- to switch the TV on from standby mode.

**0/9 Digit keys**
To select a TV channel between 0 and 999.

**AV Select your peripherals**
See Installation menu, Select your connections, p. 29.

P↤P **Previous channel**
Press to alternate between the currently viewed and the previously viewed TV channel.

**Ambilight - MODE**

**Ambilight :**
Press to switch Ambilight On or Off. For the Ambilight settings, see Use of the TV menu settings, Enjoy Ambilight, p. 19.

**MODE :**
Press this key repeatedly to toggle through the Ambilight modes.

**Note**: when the TV is switched to standby, and you switch Ambilight On, Ambilight will be active. Only then less modes are available.

◀◀ ■ ▶ ▶▶ **Audio and Video equipment keys**
See Audio and Video equipment keys, p. 48.
See Multimedia browser functional keys, p. 32.

■ **CANCEL**: no function

● no function

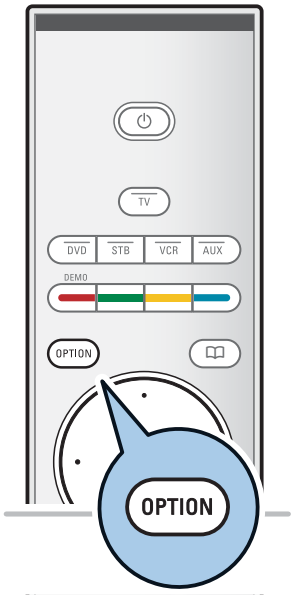
**On screen information**
Press to display (when available) information about the selected TV channel and programme.

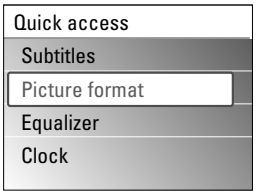
**Dual screen**
Press the key to show teletext on the right of the screen.

**FAV** To display the channels list.
You can create up to four favourite lists.

**Note**: to set the remote control to work peripheral equipment, see p. 50.

# Use of the OPTION key




The **OPTION** key allows you to display the Quick access menu which will give you direct access to some features and menu options.

1. Press the **OPTION** key.
   ▹ The Quick access menu appears.
2. Press the cursor up/down to select a menu item.
3. Press the **OK** key to jump to the selected menu item in the TV menu. (Except for the Clock option).
4. Use the cursor keys to make a selection.
5. Press the **OPTION** key to exit.

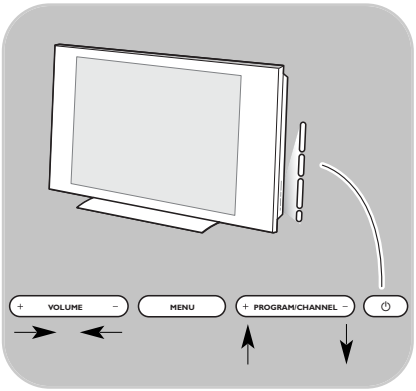
**Subtitles**:
See Adjust feature menu settings, p. 22.

**Picture format**:
See Use of the TV menu settings, Adjust picture menu settings, p. 16.

**Equalizer**:
See Use of the TV menu settings, Adjust sound menu settings, p. 17.

**Clock**:
- Select to activate/deactivate the clock display on the screen.

## Keys at the right side of the TV




In case your remote is lost or broken, apart from channel selection and volume adjustment, you can still change some of the basic settings with the keys at the right side of your TV.

- Press the power switch ⏻ to switch the TV on or off.

The **MENU** key can be used to summon the TV menu without the remote control.

- Use:
  - the **VOLUME -** and + keys and the **PROGRAM/CHANNEL -** and **+** keys to select menu items;
  - the **MENU** key to confirm your selection.

**Note**: when activated via the **MENU** key at the right side of the TV, only **Exit** lets you dismiss the menu.
Navigate to **Exit**, press the cursor right and then press the **MENU** key.

## Switch the TV on

- Press the power switch ⏻ at the right side of the TV.
  - ▹ An indicator on the front of the TV lights up and the screen comes on.
- If the TV is in standby mode, press the **-P+** keys or the ⏻ key on the remote control.

**Note**: the first time (and only the first time) you switch on your TV, you see a Welcome screen followed by the installation procedure. See First time installation, p. 9.

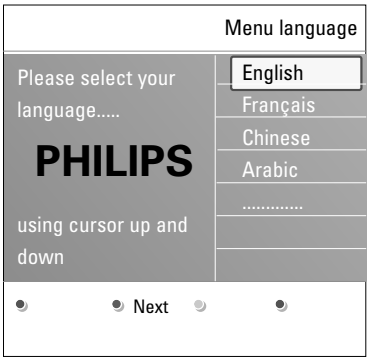
The first time (and only the first time) you switch on your TV, you see a Welcome screen followed by the installation procedure.
The installation procedure consists of a series of screens that will guide you through the installation of your TV.
Follow the instructions on screen.

**Note**: if the TV has already been installed before and/or you want to change the First time installation settings, proceed with Use of the TV menu settings, p. 12.

## Step 1: select your on-screen language

After the Welcome screen you are asked to select a language of the TV's on-screen menus. The text of the header and the info on screen continuously change language.

1. Press the cursor up/down to highlight your language.
2. Press the **OK** key on the remote control.
3. Follow the instructions on screen to proceed.

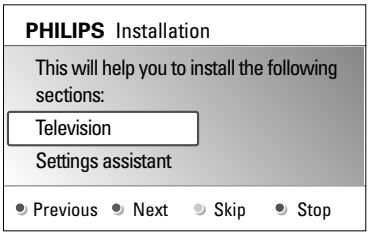


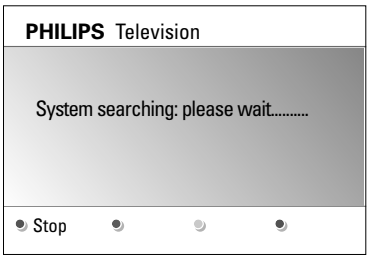

## Step 2: complete the initial TV installation procedure

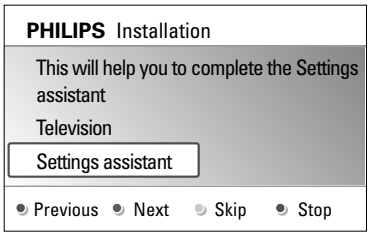
1. Press the green colour key on your remote control when **Television** is highlighted.
2. Press the green colour key on your remote control to start the Automatic channel installation.
   ▹ All available TV channels are searched for and stored automatically. This will take a few minutes.

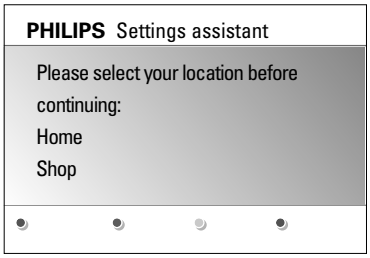
**Note**: if you choose to install the channels at a later time, select the Automatic installation in the TV menu, Installation, Channels, p. 25, to scan available channels.

3. Press the red colour key when the search is completed.






## Step 3: Settings assistant: select your TV settings

By means of several split screens/full screens you are prompted to select your preferred picture, sound and ambilight settings, to finally arrive at a complete setting which satisfies you.

1. Press the green colour key on your remote control to enter the **Settings assistant** menu.
2. Select your Location with the cursor up/down.
   - ▹ If you choose **Shop** it will skip the Settings assistant. The TV parameters for Picture, Sound and Ambilight will then be set to predefined fixed settings. Press the green colour key again to proceed.

▹ If you choose **Home** it will display the Settings assistant.

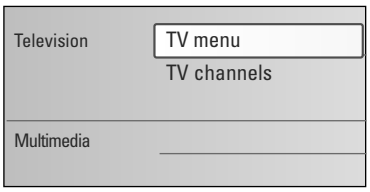
3. Use the cursor left/right to each time select your preferred screen.
4. Press the green colour key to each time confirm your selection and to jump to the following screen.
   - ▹ The following items will be presented sequentially. In the header it is mentioned how many screens have been completed and how many screens there are in total.

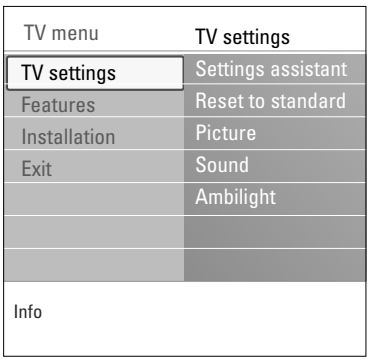
   The Settings assistant will step sequentially through the following settings: Picture, Sound and Ambilight.
5. Press the green colour key again to store all the settings and to return to the TV installation menu.

**Note**: when you skip or stop the Settings Assistant, then the standard settings Philips selected for you will be chosen.

6. Press the green colour key again to finish the First time installation procedure and to display the first stored TV channel.

**Note**: any time you can change or reset your settings or adjust individual settings for Picture, Sound and Ambilight in the TV settings menu. See p. 12, Use of the TV menu settings.
To control the settings of special TV functions, features and accessory equipment, see p. 22, Adjust feature menu settings.



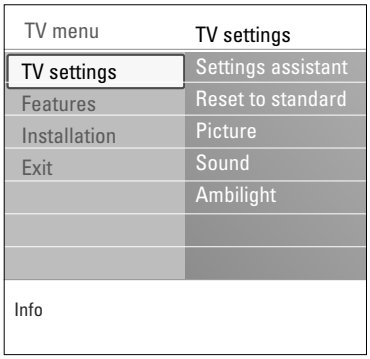




## Introduction

A lot of guiding instructions, help texts and messages will be displayed on your TV when you use the menus or when you try to execute an action.
Read the help texts which are being displayed on the specific item highlighted.
The colour keys at the bottom of the screen refer to the different actions which may be executed.
Press the corresponding colour key on the remote control to perform the required or desired action.

1. Press the **MENU/BROWSE** key on the remote control.
   ▹ The main menu appears on the screen.
   - **TV menu** allows you to access the TV menu. See below.
   - **TV channels** allows you to access the TV channel list and to create up to four favourite lists with your preferred TV channels. See Create your favourite channel list, p. 31.
   - **Multimedia** allows you to access the Multimedia browser application. It lets you display your personal multimedia files. Multimedia is only present when a USB device is connected.
     See Multimedia browser, p. 32.
2. Use the cursor up/down to highlight and select a menu item.
3. Use the cursor right to enter the highlighted menu item.
   ▹ The right panel shows the content of the highlighted menu item.
4. Use the cursor up/down to select a menu item.
   - **TV settings** allows you to adjust your preferred picture and sound settings
   - **Features** allows you to control the settings of special TV features
   - **Installation** allows you
     - to select your menu language;
     - to search for and store your TV channels;
     - to set or adjust various special functions;
     - to select connected peripheral equipment;
     - to reset your picture, sound and ambilight settings to the factory standard settings;
     - to upgrade your TV software.

# How to navigate through the menus (continued)

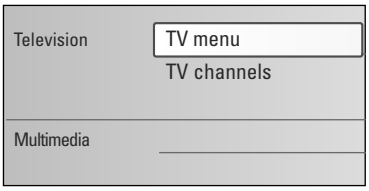



6. Press the cursor right to enter the highlighted menu item.
   ▹ The content of the right panel is moved to the left panel and the right panel now shows the content of the newly highlighted item in the left panel.

**Note**: in some cases it is important that the picture can be watched while you adjust the settings. This means that when the highlight is on the right side panel, the other menu items hide away. When cursor left is pressed again, the hidden menu items reappear and the highlight moves to the left panel.

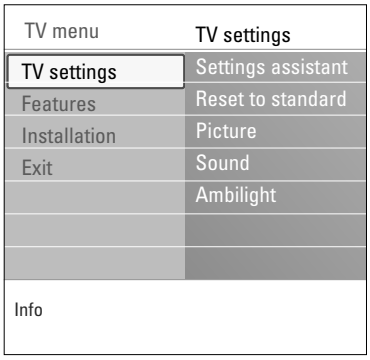
7. Press the **MENU/BROWSE** key to exit the main menu.

# Use of the TV menu settings



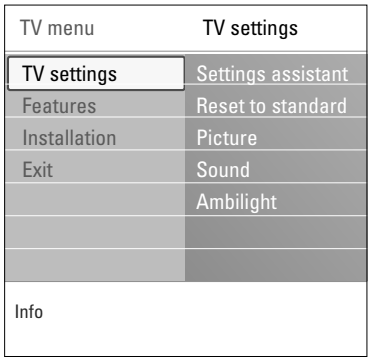

The TV menu allows you to access and change settings and preferences in case you want to change the First time installation settings and/or you want to control the settings of special TV functions, features and peripheral equipment.

## Adjust viewing and listering settings




1. Press the **MENU/BROWSE** key on the remote control.
   ▹ The main menu appears on the screen.
2. Select **TV menu** and press the cursor right.
   ▹ The TV menu is displayed.
3. Select **TV settings** and press the cursor right.
   ▹ The TV settings menu is moved to the left.
4. Press the **MENU/BROWSE** key to exit the menu.

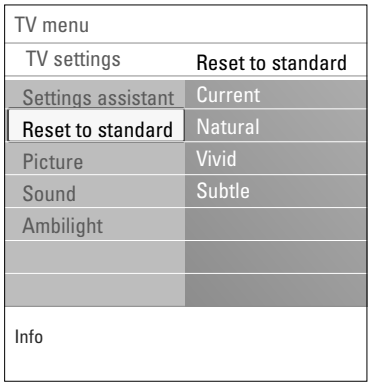
To make it easier to change the settings of the TV, there are 2 ways of doing it.




## A. Change settings in an easy-to-use manner with the Settings assistant.

Each time you've made a selection, press the green key to confirm your selection.

1. Select **Settings assistant** and press the cursor right.
   - ▹ By means of several split screens/full screens you are prompted to select your preferred picture, sound and ambilight settings to finally arrive at a complete setting which satisfies you.
     See First time installation, Step 3: Settings assistant: select your TV settings, p. 10.
2. Press the green colour key to return to the TV menu again.




## B. Use of the Standards settings (if present)

This allows you to reset your settings for viewing and listening to predefined factory settings.

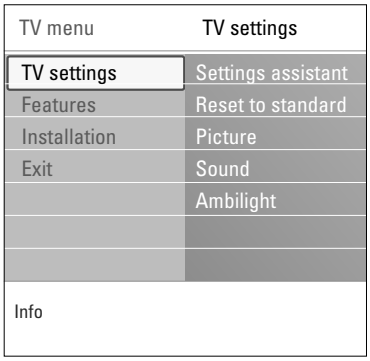
1. Select **Reset to standard** and press the cursor right.
   - ▹ A menu appears which allows you to select one of the standard settings for viewing and listening.
2. Press the cursor right.
   - ▹ **Current** shows your current settings for viewing and listening.
   - ▹ If you select **Vivid**, it allows you to set your picture, sound and ambilight settings to rich values, making use of the TV capabilities to its full extend.
   - ▹ If you select **Natural**, it allows you to set your picture, sound and ambilight settings to the recommended standard values. In most cases this will give the best balanced viewing experience.
   - ▹ If you select **Subtle**, it allows you to set your picture, sound and ambilight settings to the purest representation of the original source content.
3. Press the green colour key to store the selected setting.

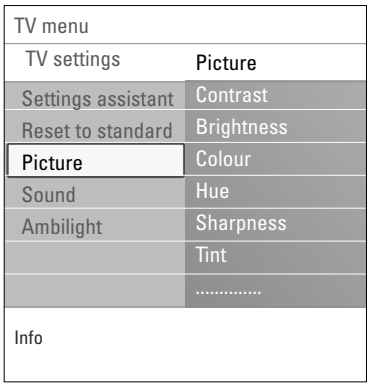
**Note**: storing a standard setting will overwrite your current settings for viewing and listening.

## C. Individual settings for picture, sound and ambilight

- ◦ Select **Picture**, **Sound** or **Ambilight** and press the cursor right.
  - ▹ A menu appears which allows you to fine tune the picture, sound and ambilight settings.
  - ▹ To adjust the Picture settings, see Adjust picture menu settings, p. 14.
  - ▹ To adjust the Sound settings, see Adjust sound menu settings, p. 17.
  - ▹ To adjust the Ambilight settings, see Enjoy ambilight, p. 19.

# Adjust picture menu settings




The picture menu contains the settings that affect the quality of the picture.

1. Press the **MENU/BROWSE** key on the remote control.
   - ▹ The main menu appears.
2. Select **TV menu** and press the cursor right.
   - ▹ The TV menu is moved to the left.
3. Select **TV settings** and press the cursor right.
   - ▹ The TV settings menu is moved to the left panel.
4. Select **Picture** and press the cursor right.
   - ▹ The Picture menu is moved to the left panel.
5. Use the cursor up/down to select the Picture menu items.
6. Press the cursor right to enter the selected Picture menu item.
7. Use the cursor keys to adjust the settings.
8. Press the cursor left to return to the Picture menu.

**Contrast**

Adjusts the intensity of bright parts in the picture but keep the dark parts unchanged.

**Brightness**

Adjusts the light output of the complete picture, which will mainly affect the darker areas of the picture.

**Colour**

Adjusts the saturation level of the colours to suit your personal preference.

**Hue**

Compensates for the colour variations in NTSC encoded transmissions.

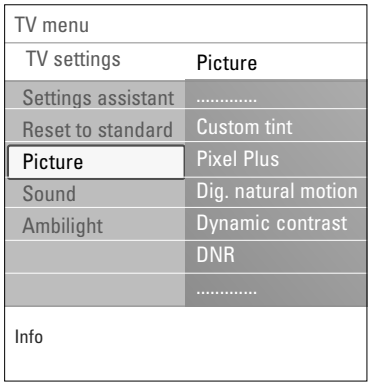
**Sharpness**

Adjusts the sharpness of fine details in the picture.

**Tint**

Increases or decreases **Warm** (red) and **Cool** (blue) colours to suit personal preferences.

- ◦ Select **Cool** to give the white colours a blue, **Normal** to give the white colours a neutral, **Warm** to give the white colours a red tint.
- ◦ Select **Custom** to make a customised setting in the Custom tint menu item.




**Custom tint** (only when Tint is set to Custom)

Fine tunes the white point (**WP**) and black level (**BL**) of the picture.

1. Select **Custom tint** and press the cursor right.
   ▹ The right panel will move to the left to reveal the Custom sliders in the right panel.
2. Use the cursor keys to select and adjust the settings of:
   **R-WP**: allows you to customise the colour tint by adjusting the red whitepoint of the picture.
   **G-WP**: allows you to customise the colour tint by adjusting the green whitepoint of the picture.
   **B-WP**: allows you to customise the colour tint by adjusting the blue whitepoint of the picture.
   **R-BL**: allows you to customise the colour tint by adjusting the red blacklevel of the picture.
   **G-BL**: allows you to customise the colour tint by adjusting the green blacklevel of the picture.
3. Use the colour keys to reset to the predefined settings.
4. Press the cursor left to return to the Picture menu.

**Pixel Plus**

Pixel Plus is the most ideal setting, as it fully processes the image to make every single pixel the best it can be, improving contrast, sharpness, picture depth, and colour reproduction and brilliance from every source, including High Definition.

◦ Select **On** or **Off** in order to activate/de-activate Pixel plus.

**Digital natural motion**

Reduces the field and line flicker and reproduces smooth movement especially in movies.

◦ Select **Off**, **Minimum** or **Maximum** in order to really see the difference in picture quality.

**Dynamic contrast**

Automatically makes the contrast in the darker and the brighter picture areas more noticeable as the image on the screen changes.

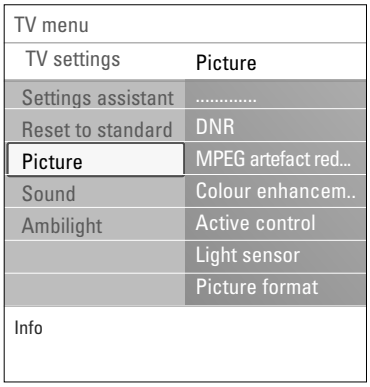
◦ Normally select **Medium**. It may be preferred to select **Minimum**, **Maximum** or **Off**.

**DNR**

**DNR** automatically filters out and reduces the image noise. This improves picture quality when receiving weak signals.

◦ Select **Off**, **Minimum**, **Medium** or **Maximum** according to the image noise in the picture.

# Adjust picture menu settings (Continued)




**MPEG artefact reduction**

**MPEG reduction On** smoothens the transitions on digital content.

- Select **On** or **Off**

**Colour enhancement**

Automatically controls green enhancement and blue stretch. It makes the colours more vivid.

- Select **Off**, **Minimum**, **Medium** or **Maximum**.

**Active control**

The TV continuously measures and corrects all incoming signals in order to provide the best picture possible.

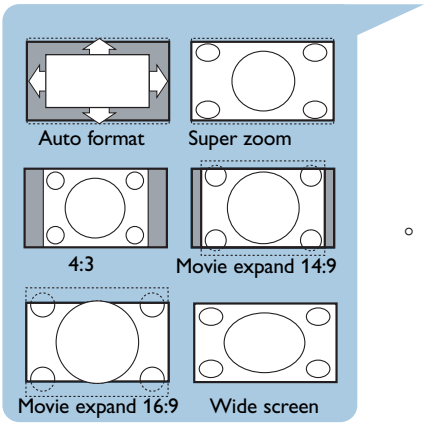
- Select **On** or **Off** to activate/de-activate Active control.

**Light sensor**

Light sensor **On** automatically adjusts the picture and ambilight settings for best viewing depending on the lighting conditions in the room.

- Select **On** or **Off**

**Picture format**



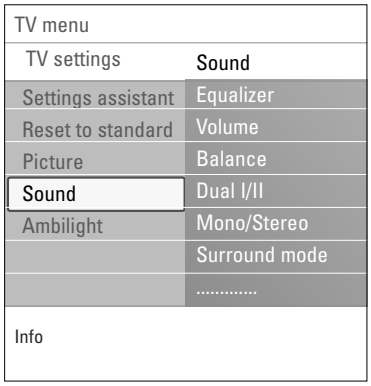

This allows you to adjust the size of the picture dependant on the broadcasted format and your preferred setting.
How to navigate through the TV settings menu, see p. 12, Use of the TV menu settings.

**Tip**: this function is also accessible via the **OPTION** key on the remote control.

- Choose among the following picture formats: Auto format, Super zoom, 4;3, Movie Expand 14:9, Movie Expand 16:9 or Wide screen.
  Auto format makes the picture fill the screen as much as possible.
  In case of subtitles in the bottom black bar, Auto format makes the subtitles visible.
  In case of a broadcaster logo in the corner of the top black bar, the logo disappears from the screen.
  Super zoom removes the black bars on the sides of 4:3 programmes with minimal distortion.
  When in Movie Expand 14:9, Movie Expand 16:9 or Super zoom screen format, you can make subtitles visible with the cursor up/down.

**Note**: with HD sources not all picture formats will be available.

# Adjust sound menu settings




The sound menu contains the settings that affect the quality of the sound.

1. Press the **MENU/BROWSE** key on the remote control.
   ▹ The main menu appears.
2. Select **TV menu** and press the cursor right.
   ▹ The TV Menu is moved to the left.
3. Select **TV settings** and press the cursor right.
   ▹ The TV settings menu is moved to the left panel.
4. Select **Sound** and press the cursor right.
   ▹ The Sound menu is moved to the left panel.
5. Use the cursor up/down to select the Sound menu items.
6. Press the cursor right to enter the selected Sound menu item.

**Note**: dependent on the input signal, one or more menu items may not be selectable.

7. Use the cursor keys to adjust the settings.
8. Press the cursor left to return to the Sound menu.

### Equalizer

Allows you to change the frequency response of the sound to match your personal taste.

**Tip**: this function is also accessible via the **OPTION** key on the remote control.

### Volume

Allows you to adjust the sound output level.

### Balance

Allows you to adjust the output of the right and left speakers to obtain the best stereo reproduction for your listening position.

### Dual I/II

Allows you to select, per channel, **Dual I** or **Dual II,** when dual sound transmission is available.

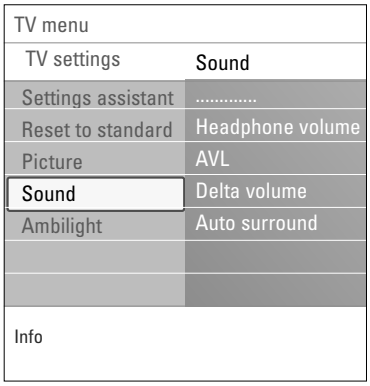
### Mono/Stereo

Allows you to select, per TV channel, **Mono** or **Stereo** sound when stereo broadcasts are available.

### Surround mode

Allows you to select the modes for more spatial or surround sound reproduction dependent on the broadcasted signals or signals from external inputs received.

# Adjust sound menu settings (Continued)




### Headphone volume

Allows you to control the level of sound through the headphones.

### AVL (Automatic Volume Leveler)

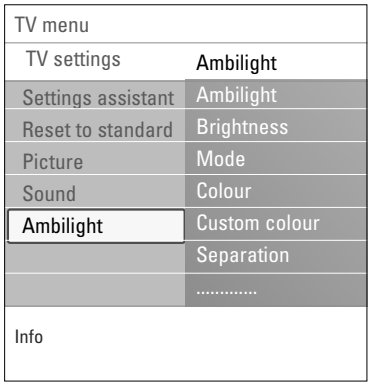
Automatically reduces the volume differences between channels and programmes, providing a more constant overall level. This will also reduce the dynamics of sound.

### Delta volume

Allows you to correct for any permanent volume differences between TV channels or external sources.

### Auto surround

When switched **On**, this allows the TV to automatically switch to the best surround sound mode the broadcaster transmits.




The ambilight menu contains the settings for controlling the ambient lighting. Using ambient light gives a more relaxed viewing experience and improves perceived picture quality. Analysis of the picture content adapts the colours continuously. But the lights can also be set to any fixed colour and many shades of white.

**Tip**: in standby mode the lights can be set/operated to any colour and create a unique ambiance in the room. See Use of the remote control, p. 21.

1. Press the **MENU/BROWSE** key on the remote control.
   ▹ The main menu appears.
2. Select **TV menu** and press the cursor right.
   ▹ The TV Menu is moved to the left.
3. Select **TV settings** and press the cursor right.
   ▹ The TV settings menu is moved to the left panel.
4. Select **Ambilight** and press the cursor right.
   ▹ The Ambilight menu is moved to the left panel.
5. Use the cursor up/down to select the Ambilight menu items.
6. Press the cursor right to enter the selected Ambilight menu item.
7. Use the cursor keys to adjust the settings.
8. Press the cursor left to return to the Ambilight menu.

### Ambilight

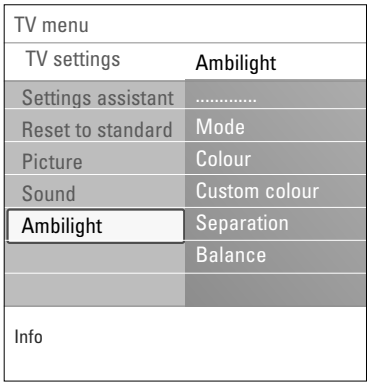
Allows you to switch the lights On or Off at the rear of the TV.

- Select **Off** to switch off the ambient lights and downlight all other ambilight menu items.
- Select **On** to switch on the ambient lights. Refine the light settings in the menus below.

### Brightness

Allows you to adjust the light output of the ambilights.

# Enjoy Ambilight (Continued)




## Mode

Allows you to choose for constant background lighting or for background lighting that matches the images displayed on the screen.

◦ Use the cursor keys to select Colour, Relaxed, Moderate or Dynamic.
- **Colour**: this will show constant light according to the settings in the Colour menu below. It allows manual fine tuning in the next Ambilight menu items.
- The options **Relaxed**, **Moderate** or **Dynamic** will dynamically match brightness and colour to the screen content. The selection made will effect the speed which determines the viewing impression.
  For example:
  - in **Relaxed** mode, the rate of brightness and colour change, as predefined in the factory, is smoothly and soft which gives you an immersive yet relaxed viewing.
  - in **Moderate** mode the rate of brightness and colour change can be experienced as between Relaxed and Dynamic.
  - in **Dynamic** mode the rate of brightness and colour change is more quick and dynamic. This gives you full immersion and involvement with the screen content.

**Notes**:
- the rate of change is limited, as not to cause uncomfortable sensations;
- according to the selection made, some Ambilight menu items will be downlighted and can not be selected.

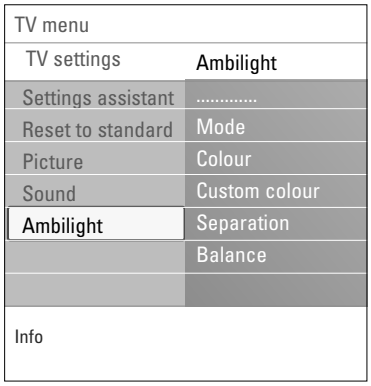
## Colour

**Note**: only available when Colour has been selected in the Mode menu above.

Allows you to select or adjust the colour of the light to your own personal choice.
- **Warm white** is matched to that of most normal lightbulbs. Select this setting if you want the Ambilight to fit best with normal living room lighting.
- **Cool white** is matched to that of normal daylight (6500K). Select this setting if you prefer more cool lighting.

**Note**: the 6500K is the SMPTE recommended setting for ambient backlighting of displays.

- **Blue**: preferred by most consumers to create a cool, modern and/or mystical atmosphere. Select this setting according to your personal taste or mood.
- **Red**: preferred by most consumers to create a cosy, special atmosphere. Select according to your personal taste or mood.
- **Custom**: select if you want to customise the ambilight colour.




### Custom colour

**Note**: only available when Custom has been selected in the Colour menu.

Allows you to customise the ambilight colour.

- Select **Palette** to select the general colour of the light output.
- Select **Saturation** to adjust the colourfulness of the light.

### Separation

Allows you to define the stereo effect in case, Relaxed, Moderate or Dynamic has been selected in the Mode menu.

- Select **Off** for a mono behaviour which means that all lamps will behave equally.
- Select **Minimum**, **Medium** or **Maximum** to define the Ambilight stereo effect spread over the available lamps.

### Balance

Allows you to adjust the colour and level of light intensity on the left and right side of the picture.

## Ambilight in standby mode

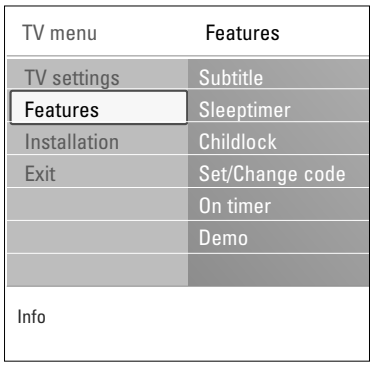
When the TV is switched off, the ambient lights will also be switched off. When the TV is in standby mode, ambilight can be used to provide a unique ambience for the room.

- Press the **Ambilight** key on the remote control to switch between Ambilight On or Off. See Use of the remote control, p. 6.
- Press the **Ambilight MODE** key repeatedly to toggle through the Ambilight modes.

**Note**: when the TV is switched to standby, and you switch Ambilight On, then less Ambilight modes are available.

**Caution**: Infrared interference
To avoid bad infrared remote control reception, place your peripheral equipment out of sight of the ambient lights of your TV. Ambilight does not function well when the room temperature is less than 59°F/15°C.

# Adjust feature menu settings




The Features menu allows you to control the settings of special TV functions, features and accessory equipment.

1. Press the **MENU/BROWSE** key on the remote control.
   ▹ The main menu appears.
2. Select **TV menu** and press the cursor right.
   ▹ The TV Menu is moved to the left.
3. Select **Features** and press the cursor right.
   ▹ The Features menu is moved to the left panel.
4. Use the cursor up/down to select the Features menu items.
5. Press the cursor right to enter the selected Features menu item.
6. Use the cursor keys to adjust the settings.
7. Press the cursor left to return to the Features menu.

## Subtitle

This displays Teletext subtitles from the selected TV channel. These can be permanently displayed, or only when mute is active. The teletext subtitle page must be stored for each TV channel.

1. Switch on teletext and select the proper subtitle page from the index.
2. Switch off teletext.
3. Select
   - **Subtitle On** to display the subtitles on the selected TV channels. A symbol will indicate that the mode is on.
   - **On during mute** to automatically display the subtitles only when the sound has been muted with the 🔇 key on the remote control.

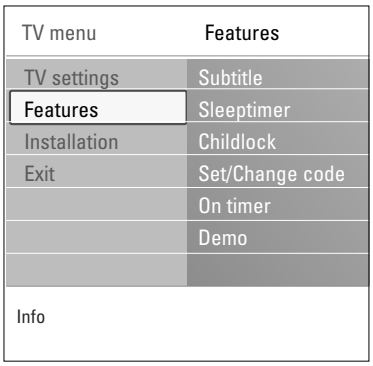
**Tip**: this function is also accessible via the **OPTION** key on the remote control.

## Sleeptimer

This sets a time period after which the TV automatically switches to standby.

1. Select **Sleeptimer**.
2. Press the cursor right.
3. Select a value with the cursor up/down.
   ▹ The list will have values from 0 to 180 minutes. When 0 is selected, the sleeptimer is switched off.

**Note**: you can always switch off your TV earlier or select another time set.




**Childlock**

With a 4-digit code, you are able to lock TV channels and external sources to prevent children from watching certain programmes.

1. Select **Childlock**.
2. Press the cursor right to enter the Childlock menu.
3. Enter your 4-digit code.

**Note**: you have to re-enter your code each time you enter the Childlock menu.

4. Select one of the menu items of the Childlock menu and press the cursor right:
   - **Lock** to lock all channels and externals:
   - **Custom lock** to lock a certain programme or to lock all the channels from a certain time.
   ◦ Select:
   - **Channel lock** to lock a certain TV channel or external. Press the **OK** key to activate;
   - **Lock after** to lock all programmes from a certain time onwards.
   ◦ Press the cursor right.
   ◦ Select **On** with the cursor right to set the lock.
   ◦ Enter the time with the cursor up/down and right.
   - Select **Unlock** to disable all locks you have set.

**Important: you have forgotten your code !**

1. Select **Change code** and press the cursor right.
2. Enter the overriding code 8-8-8-8.
3. Enter a new personal 4-digit code.
4. Confirm your new entered code.

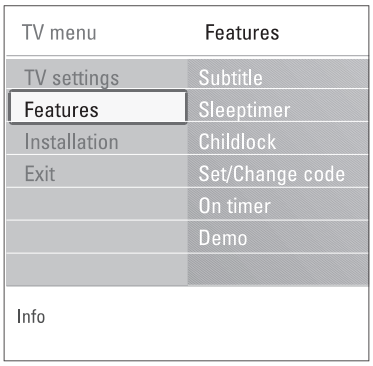
▹ The previous code is erased and the new code is stored.

**Set code/Change code**

This allows you to set or change the personal 4-digit access code that is used in the different lock functions of the TV.

◦ Select **Set** or **Change code**.
  ▹ If no PIN-code exists yet, the menu item is set to **Set code**. Follow the instructions on screen.
  ▹ If a PIN-code has previously been entered, the menu item is set to **Change code**. Follow the instructions on screen.

◦ Enter your code with the digit keys. All number combinations from 0000 to 9999 are valid numbers.
  ▹ The Features menu reappears with a message confirming that your PIN-code has been created or changed.

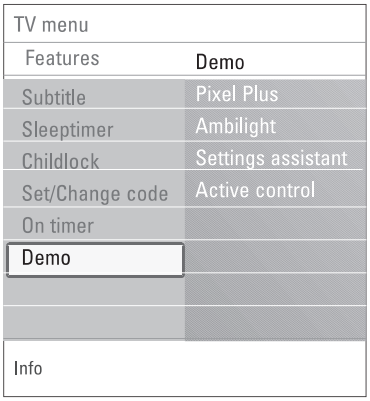



## On timer (only available when Teletext is present)

From standby, this automatically switches the TV to the specified channel number, at a specified time.

1. Select **On timer**.
2. Press the cursor right to enter the On timer menu.
3. Select **Timer** and press the cursor right.
4. Select **On**.
5. Select **Channel** and then the TV channel you want your TV to switch to on a selected time and day
6. Select **Day** and then a day of the week or select **Daily**.
7. Select **Time** and enter the time with the digit keys or with the cursor up/down.
8. Press the **OK** key to activate.
9. Press the cursor left to return to the Features menu or press the **MENU/BROWSE** key to switch off the menu.

**Note**: only one On timer can be set.




## Demo

This allows you to get an idea of the features that are part of the television.

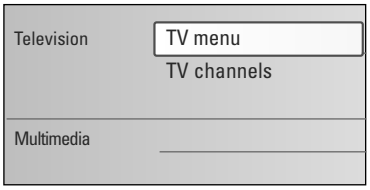
1. Select **Demo**.
2. Press the cursor right.
3. Select a desired demo.
4. Press the **OK** key to start the demo.

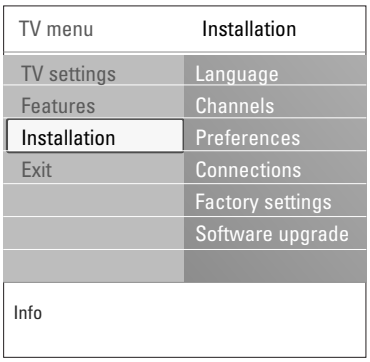
▹ The selected demo is played once.

5. Press the red colour key to stop the demo and to return to the demo menu.
6. Press the red colour key to exit the demo menu.

# How to search for and store TV channels

**Tip**: you will need this chapter only if you want to change the installation settings.

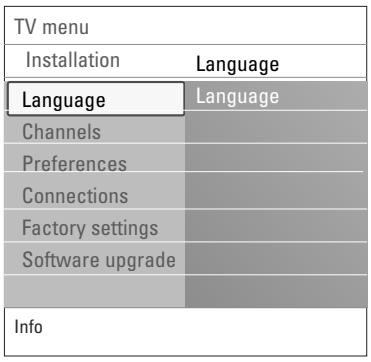



## Installation menu

This menu will adjust settings related to the initial installation of your TV.

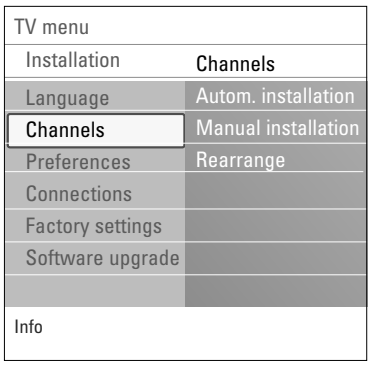
1. Press the **MENU/BROWSE** key on the remote control.
   ▹ The main menu appears.
2. Select **TV menu** and press the cursor right.
   ▹ The TV Menu is moved to the left.
3. Select **Installation** and press the cursor right.
   ▹ The Installation menu is moved to the left panel.
4. Use the cursor up/down to select the Installation menu items.
5. Press the cursor right to enter the selected Installation menu item.
6. Use the cursor keys to make a selection.
7. Press the **OK** key to activate or to confirm.
8. Press the cursor left to return to the Installation menu or press the **MENU/BROWSE** key to switch off the menu.




## Select your menu language

This allows you to select your preferred menu language.

1. Select the language menu item and enter the list of available languages with the cursor right.
2. Select your language with the cursor up/down.
3. Press the **OK** key to confirm your selection.




## Store TV channels

After language is set correctly, you can now search for and store the TV channels.

◦ Select **Channels** in the TV, Installation menu.

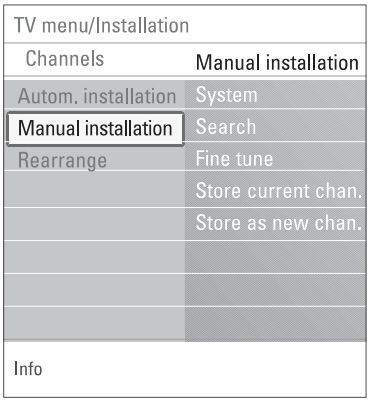
### Automatic installation

The TV will scan the entire frequency spectrum.

▹ All available TV channels are searched for and stored automatically. This will take a few minutes.

▹ When the search is complete, the menu will indicate the number of channels found.

# How to search for and store TV channels (Continued)




## Manual installation

This gives you the possibility to manually install (tuning-in channel by channel) TV channels.

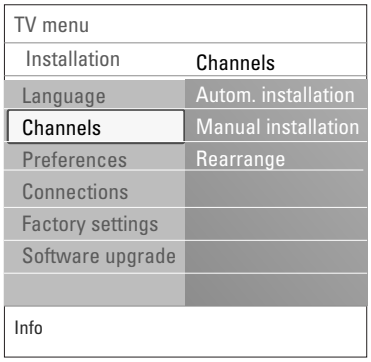
1. Select **Manual installation** and press the cursor right.
2. Select **System**.
3. Select **Search** and press the cursor right.
4. Select the red or green colour key to proceed.

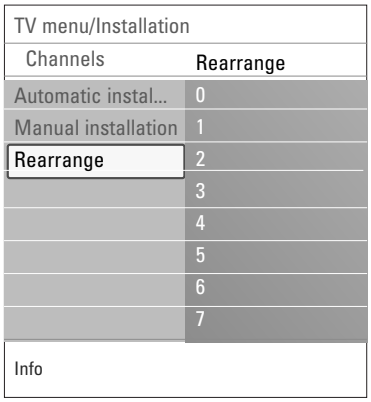
**Tip**: if you know the frequency, enter the 3 digits of the frequency with the digit keys 0 to 9 (For example, 049).

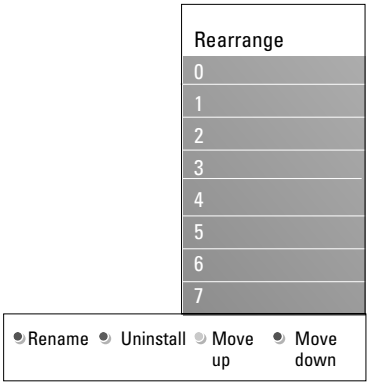
5. Press the cursor left to store the channel found or to search for another channel.
6. Select **Fine tune** and press the cursor right.
   Fine tuning can be useful when the frequency has shifted a bit or when interference of another frequency occurs. Adjust the frequency with the cursor up/down in case of poor reception of the channel found.
7. Select **Store current channel** if you want to store the (fine tuned) frequency under the current channel number. Press the cursor right and confirm with the **OK** key.
   Select **Store as new channel** if you want to store the (fine tuned) frequency under a new channel number. Press the cursor right and confirm with the **OK** key.
9. Use the rearrange menu to rename or reshuffle the channels. See next page.

**Note :** Select System **(PAL BG, PAL I, PAL DK** or **NTSC M).**

# Rearrange the channel number list




This allows you to rename, to reshuffle and to uninstall or reinstall the stored channels.

◦ Press the corresponding colour keys and follow the on screen instructions.

### Reshuffle

This allows you to change the order of the stored TV channels.

1. Select the channel you want to change place.
2. Press the yellow colour key to move up a single position in the list.
3. Press the blue colour key to move down a single position in the list.
4. Repeat to reshuffle other TV channels.

### Rename

This allows you to change the name stored in the memory or to assign a name to a channel or external for which a name has not yet been entered.

1. Select the channel you want to rename.
2. Press the red colour key on your remote control.
3. Select the characters with the cursor up/down. Select the following position with the cursor right.
4. Press the green colour key or the **OK** key when finished.

**Notes**:
- press the yellow colour key to delete all characters. The cursor is positioned at the beginning again;
- press the blue colour key to delete the character the cursor is positioned. Enter a new character with the cursor up/down;
- a name can be given to the channel numbers 0 to 999;
- space, numbers and other special characters are located between Z and A.

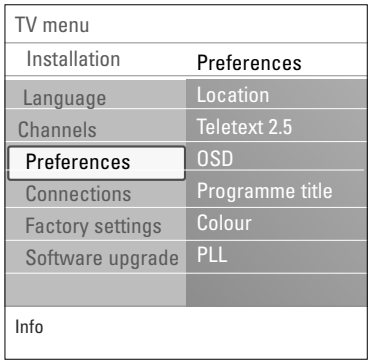
5. Select another channel number and repeat steps 2 to 5.

### Uninstall - reinstall

This allows you to uninstall a stored channel or external so that it is no longer possible to tune to. This also allows you to reinstall an earlier uninstalled channel.

1. Select the channel you want to uninstall.
2. Press the green colour key to uninstall the selected channel.
   ▹ The uninstalled channel is indicated in the list by an icon in front of the uninstalled channel.
3. Press the green colour key again to reinstall the uninstalled channel.

# Set your preferences




This menu contains items that can set or adjust various special TV functions and that will typically be accessed only occasionally.

## Select your location

This allows you to select the location of your TV.
If you choose for **Shop** it will result in fixed settings of picture, sound and ambilight.
The location **Home** will give full flexibility to change any predefined settings for picture, sound and ambilight.

## Select Teletext 2.5

Some broadcasters offer the opportunity to see more colours, other background colours and nicer pictures in the teletext pages.

- Select **Teletext 2.5 On** to take advantage of this feature.
- Select **Teletext Off** if you like the more neutral teletext layout.
  - The selection made is valid for all the channels which broadcast Teletext 2.5.

**Note**: it may take a few seconds before teletext broadcast switches over to Teletext 2.5.

## Select the On Screen Display (OSD)

This allows you to select the display of the volume bar and a reduced or extended on screen display of programme and channel information.

- Select **Minimum** to activate the display of reduced channel information.
- Select **Normal** to activate the display of extended channel and programme information. For example, information on the programme, input signal quality of connected peripheral equipment, the screen format and sound mode, ratings, remaining time of the sleeptimer setting,...

## Display a Programme title

This allows you, to display the programme title according to the transmitted information.

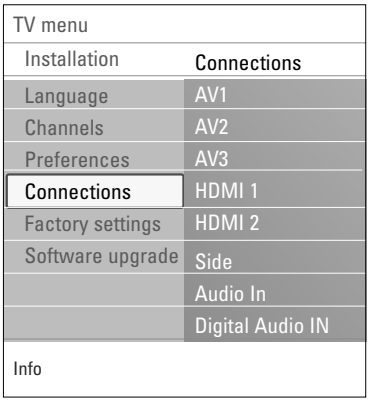
- When selected **Yes**, after the selection of a TV programme or after you press the i+ key on the remote control, a programme title will be displayed if transmitted.
- When selected **No**, the programme title will only appear after you press the i+ key and not after the selection of a channel.

## Colour

This allows you to manually select the correct colour system.

## PLL

This enables you to select a different setting for the picture decoding.




This allows you to select the peripheral equipment you have connected to the audio and video connectors.

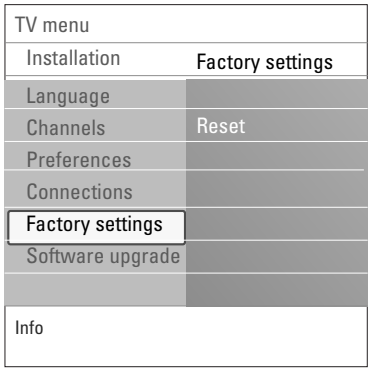
1. Select **Connections**.
2. Press the cursor right.
3. Select the input to which the peripheral equipment is connected.
   - ▹ When you select **AV1**, **AV2**, **AV3**, **HDMI 1**, **HDMI 2**, **Side**, **Audio In** or **Digital Audio In**, a list appears which allows you to identify which type of peripheral equipment is attached to this input.
4. Press the cursor right again to enter the list of types of peripherals connected to the selected input.
5. Select the peripheral equipment with the cursor up/down.

### Digital Audio In

- ◦ Select **Digital Audio In** when the TV expects digital audio for a connected peripheral equipment to come from a Digital Audio input.
- ◦ Make your selection of the source to which the peripheral equipment with digital audio input has been connected.

  In addition to accepting audio input via Digital Audio In, the TV can output encoded Dolby Digital audio via the **DIGITAL AUDIO OUT** connector to an external amplifier or receiver. If your amplifier or receiver has a matching connector for Digital Audio In, you can connect it with a single cable to the TV's **DIGITAL AUDIO OUT**.
  See To make video and audio connections, Connect a Home Cinema amplifier, p. 46.

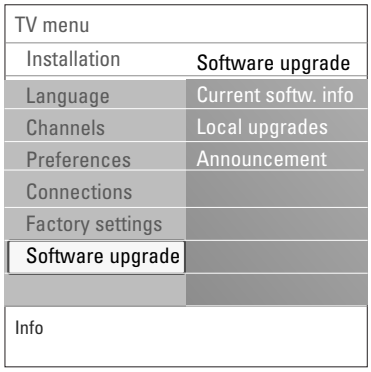
## Reset the Factory settings




This allows you to reset most of the predefined factory states.

1. Select and press the cursor right.
2. Press the **OK** key to erase settings and reset them to their default values.

## How to upgrade the TV software




This allows you to upgrade your TV software using a USB device.

### USB device upgrade

It is possible to initiate an upgrade procedure from a USB device before you start up the TV. The memory device must be filled with the appropriate upgrade image (and structure) which can be found on the www. philips.com/software website.

How to upload a new software version on your memory device, see Annex 2, Philips TV software upgrade with portable memory, p. 51.

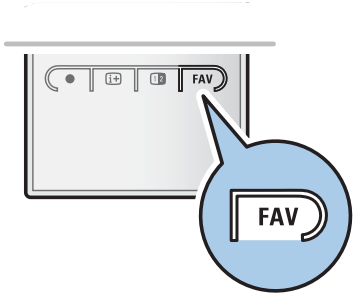
### Automatic software announcement

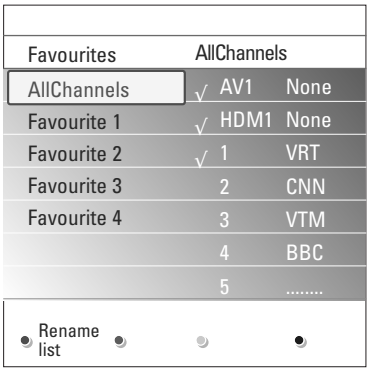
When you switch on your TV a message may appear that a new software upgrade is available.

- Press the red colour key on your remote control if you want to be reminded later on.
- Press the green colour key on your remote control to confirm you have read the message.
  - Once you have confirmed, the message will not pop up again.
    If however, you want to see the last broadcasted announcement again, select **Announcement** in the Software upgrade menu.

**Note**: as long as the software upgrade has not been executed, the message will be available.

# Create your favourite list





This allows you to create up to four favourite channels lists with your preferred TV channels. For example, each member of your family can create his/her own favourite list.

**Note**: when this key is pressed the first time after you have finished the installation, it will bring up the full channel list. In other situations it will bring up the last selected channel list.

## To select a channel from the displayed favourite list

1. Press the **FAV** key.
   ▹ The last selected channel list appears.
2. Use the cursor keys to select a channel.
3. Press the **OK** key to display the selected channel.

## To select another favourite channel list

1. Press the **FAV** key.
   ▹ The last selected channel list appears.
2. Press the cursor left.
   ▹ The All channels list and four favourite channels lists appear on the screen.
3. Use the cursor up/down to select a list.

○ Press the red colour key to rename the lists if you want to.

4. Press the **FAV** key again to exit.

## To create a favourite list or to modify the list

1. Press the **FAV** key.
   ▹ The last selected channel list appears.
2. Press the cursor left.
3. Select your desired channels list.
4. Press the cursor right.
5. Press the red colour key to add channels.
   ▹ All channels present in the list are displayed. The favourite channels are marked.
6. Use the cursor up/down to select the channel you want to add to or skip from the list.
7. Press the green colour key to mark or unmark the highlighted channel and to add it to or remove it from your selected favourite list.

   **Note**: press the red colour key again to display the list only holding your favourites

8. Press the **FAV** key again to exit.
   ▹ With the **–P+** key you will be able to browse through the TV channels of the selected list.

**Note**: with the digit keys you can still select channels which are not marked as favourite.

# Multimedia Browser

The Multimedia browser lets you display pictures or play audio files stored on a USB device. The Multimedia browser application is invoked from the main menu.

- Following file formats can be reproduced:
  for pictures: JPEG
  for audio: MP3, MP3 Pro
  for video: MPEG2
- Only FAT/DOS-formatted memory devices are supported.
- Philips can not be held responsible if your USB device is not supported.

## To view content from a USB device

**Tip**: if your USB device does not fit into the USB connector at the side, use an USB extend cable to connect the USB device to the USB port. Ask your dealer for more information.

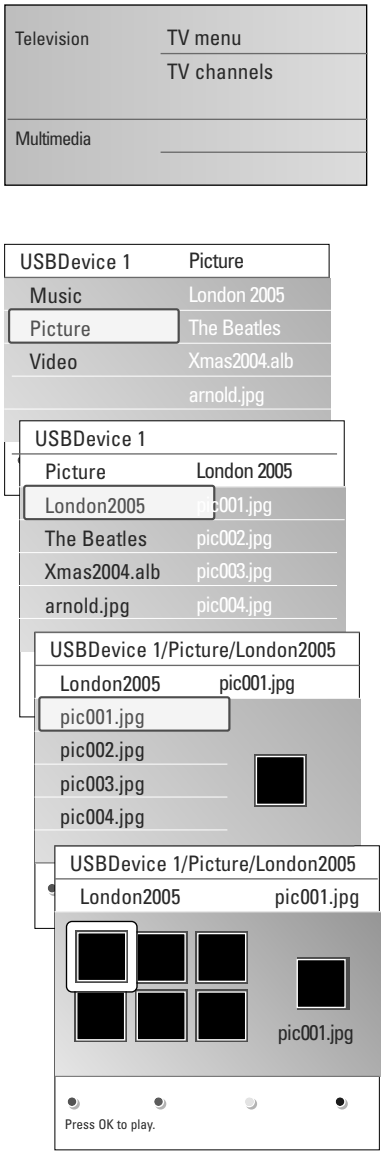
### To insert a USB device

**Note**: USB devices are not supplied with this TV.

In case of a USB-memory stick or a digital camera, connect it to the USB connector at the side. See To make video and audio connections, Side panel overview, p. 38.
When a USB device is inserted, the Multimedia browser menu is displayed automatically. See further.

### To remove the USB device

1. Press the **MENU/BROWSE** key on the remote control to switch off the main menu.
2. Remove the USB device.




## Multimedia Browser menu

1. Insert a USB device.
2. Select the USB device under Multimedia with the cursor up/down.
   - ▹ The Multimedia browser allows you to browse content stored on the inserted USB device.
   - ▹ The 2-panel browser will be shown with the left panel containing the content types (Music, Pictures, Video).
   - ▹ The right panel will display the content that is available of the selected content type.
3. Press the cursor up/down to select a content.
4. Press the cursor right to enter the content.
5. Press the cursor up/down to select a file or a directory.

**Note**: press the green colour key to display all the image files in the current directory as thumbnails when browsing pictures. Press the green key again to display the image files in a list.

6. In case a **file** is selected, press the **OK** key to display a picture file or to play an audio file.
   In case a **directory**, **album** or **playlist** is selected, press the cursor right to enter the content or press the **OK** key to start a slide show or a loop playback of the files present.
7. Press the cursor left to keep music playing and switch back to the Multimedia menu.
8. Press one of the colour keys on the remote control to perform the corresponding function mentioned at the bottom of the screen.

**Tip**: the blue colour key can, if necessary, be used to let the colour keys reappear.

9. To stop playing content, press the ■ key on the remote control.

**Notes**:
- your TV supports slide shows with background music. See Annex 3, Philips TV-slideshow format with background music, p. 54;
- the playback will continue to play even if temporarily switched to browser screens. The audio will be stopped when another song starts playing, or when the end has been reached;
- more technical remarks can be found in Annex 4, Philips TV-Digital camera and USB issues, p. 57.

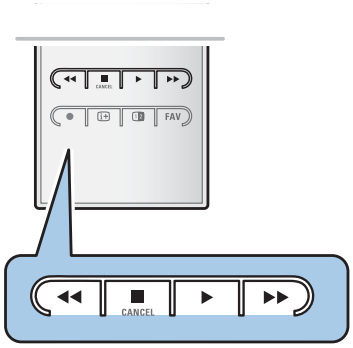
**Following icons may appear:**

folder
music
pictures
self made playlist/album
video

### Function keys at the bottom of the screen

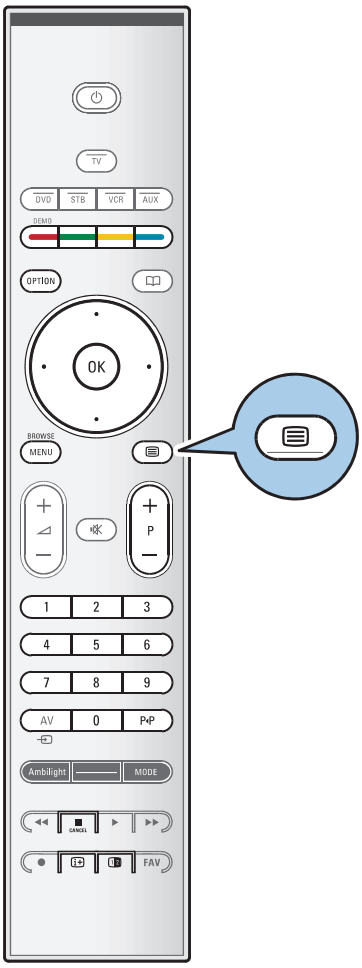
| | |
|---|---|
| Details | to display a description of the selected file or directory |
| Transitions | to select if you like to apply a transition during a slide show |
| Slide time | to select the duration a picture will be displayed in a slide show |
| Rotate | to rotate a picture |
| Repeat one/all | to repeat the playback of a music file |
| Shuffle | to shuffle music collections in a random way |
| Zoom | to select one of the zoom magnifications (x1, x2, x4) with the cursor up/down. Additionally you can shift the selected zoom window over the screen with the cursor keys. |
| Full/small screen | to toggle between a full or a small screen |

**Note**: to rotate a picture or to select one of the zoom magnifications, first stop the slide show with the **OK** key or the blue colour key.




### Multimedia function keys on the remote control

◀◀ to fast rewind displaying content
■ to stop playing content
▶ - to play a single file, start a slide show, playback of a folder or other collection
- to pause playing content
▶▶ to fast forward displaying content




**Note**: Only English teletext supported.

Most TV channels broadcast information via teletext.
This TV has a 1200 pages memory that will store most broadcasted pages and subpages to reduce waiting time. After each programme change, the memory is refreshed.

- Press ☰ to switch the teletext on.
- ▹ The main index page appears on the screen.

### Select a Teletext page

- Enter the desired page number with the digit keys or with the **-P+** key.
- Select the options at the bottom of the screen with the colour keys.

### Previous selected teletext page

- Press the P↩P key.

### Select T.O.P. teletext broadcasts

- Press i+.
- ▹ A T.O.P. overview of the teletext subjects available is displayed.
- Select with the cursor up/down, left/right the desired subject and press the **OK** key.

**Note**: not all TV channels broadcast T.O.P. teletext.

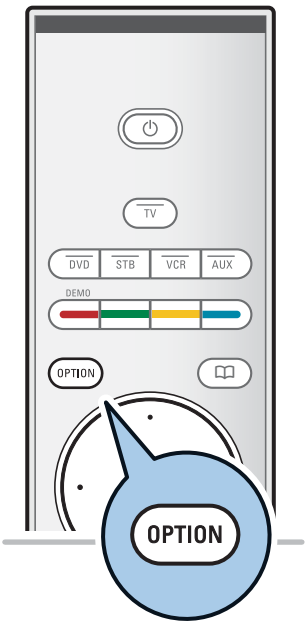
### Select subpages

When a selected teletext page consists of different subpages, a list of available subpages appears on the screen. Press the cursor left or right to select the next or previous subpage.

### Picture/Teletext

1. Press the ☰ key.
2. Press the 1|2 key to show Teletext on the right of the screen.
3. Press the ☰ key to return to a full teletext picture.
4. Press the 1|2 key to return to a full screen picture.

# Teletext (Continued)




## Hypertext

With hypertext you can quickly jump to a pagenumber or search for a specific word shown on the current teletext page.

1. Press the **OK** key to highlight the first word or a number on the page.
2. Use the cursor up/down, left/right to select any other word or number you want to search for.
3. Press the **OK** key to confirm. The search starts.

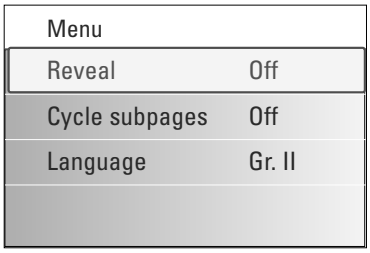
▹ A message appears at the bottom of the screen to indicate the searching, or that the word or page is not found.

4. Use the cursor up until the top of the page to exit hypertext.

## Enlarge a Teletext page

◦ Press the **OPTION** key on the remote control repeatedly to display the upper teletext part, the lower teletext part and then to return to the normal teletext page size.

## Teletext menu




The Teletext menu offers various functions to control teletext.

1. Switch teletext on and press the **MENU/BROWSE** key to activate the menu.
2. Press the cursor up/down to select the menu items.
3. Press the **OK** key to activate.
4. Press the **MENU/BROWSE** key to leave the teletext menu.

### Reveal

Reveals/conceals hidden information on a page, such as solutions to riddles and puzzles.

### Cycle subpages (if subpages are available)

Makes the subpages cycle automatically.

◦ Press the **OK** key to activate and to deactivate again.

### Language

If the displayed characters on screen do not correspond with the characters used by the teletext broadcaster, you can change the language group here.

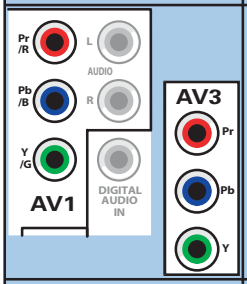
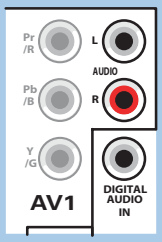
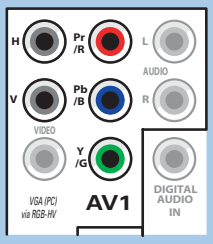
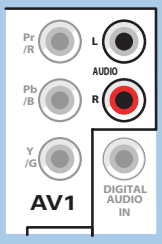
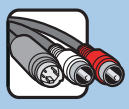
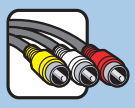
◦ Select **Gr. I** or **G. II** with the **OK** key.

# To make video and audio connections

EN

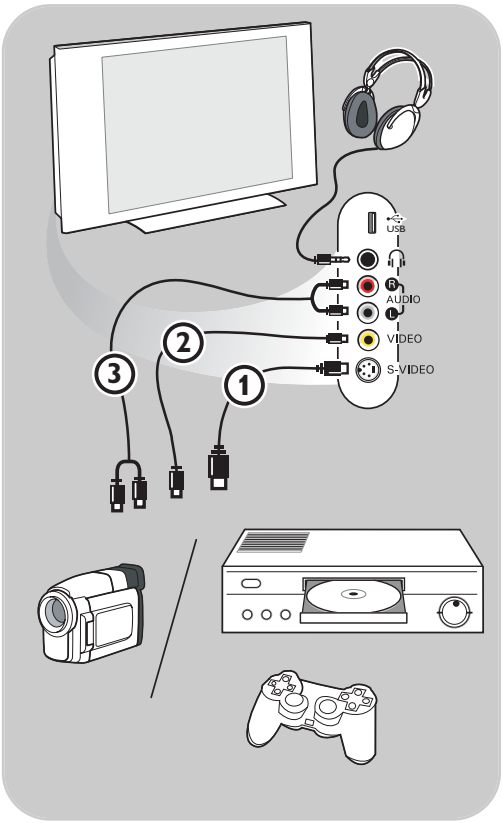
**Tip**: use the inputs that are available on your equipment that provide the best video or audio performance, as below.

**Note**: your TV comes with all types of connectors with the exception of the DVI connector but some of your equipment may be equipped with this type. In this case you'll need a DVI to HDMI adapter or a HDMI to DVI cable and separate audio cables, all available at your local dealer.
**Warning**: be sure to connect the DVI output connector first, then connect to the HDMI input on your TV.

| | Connector cable | Audio connection required |
|---|---|---|
| HDMI | HDMI (High-definition Multimedia Interface) | No |
|   | Component video (480p/576p/720p/480i/576i/1080i)<br>- Analogue audio (AV1) <br>- Digital audio (AV1 or AV3) |   |
|   | RGB H/V |   |
| S-VIDEO | S-Video  | AUDIO L / R : AV1 AV2 SIDE |
| VIDEO | Video  | AUDIO L / R : AV1 AV2 SIDE |
| 75 Ω | RF/Coaxial | No |

**Note**: cables are often colour-coded to connectors. Connect red to red, white to white....

# To make video and audio connections - Side panel overview




## Camera, Camcorder, Game

1. Connect your camera, camcorder or game as shown.
2. Connect to **VIDEO** ② and **AUDIO L** ③ for mono equipment. For stereo equipment also connect **AUDIO R** ③.
   S-VHS quality with an S-VHS camcorder is obtained by connecting the S-VHS cables with the **S-VIDEO** input ① and **AUDIO** inputs ③.

**Warning**: do not connect cable ① and ② at the same time. This may cause picture distortion !

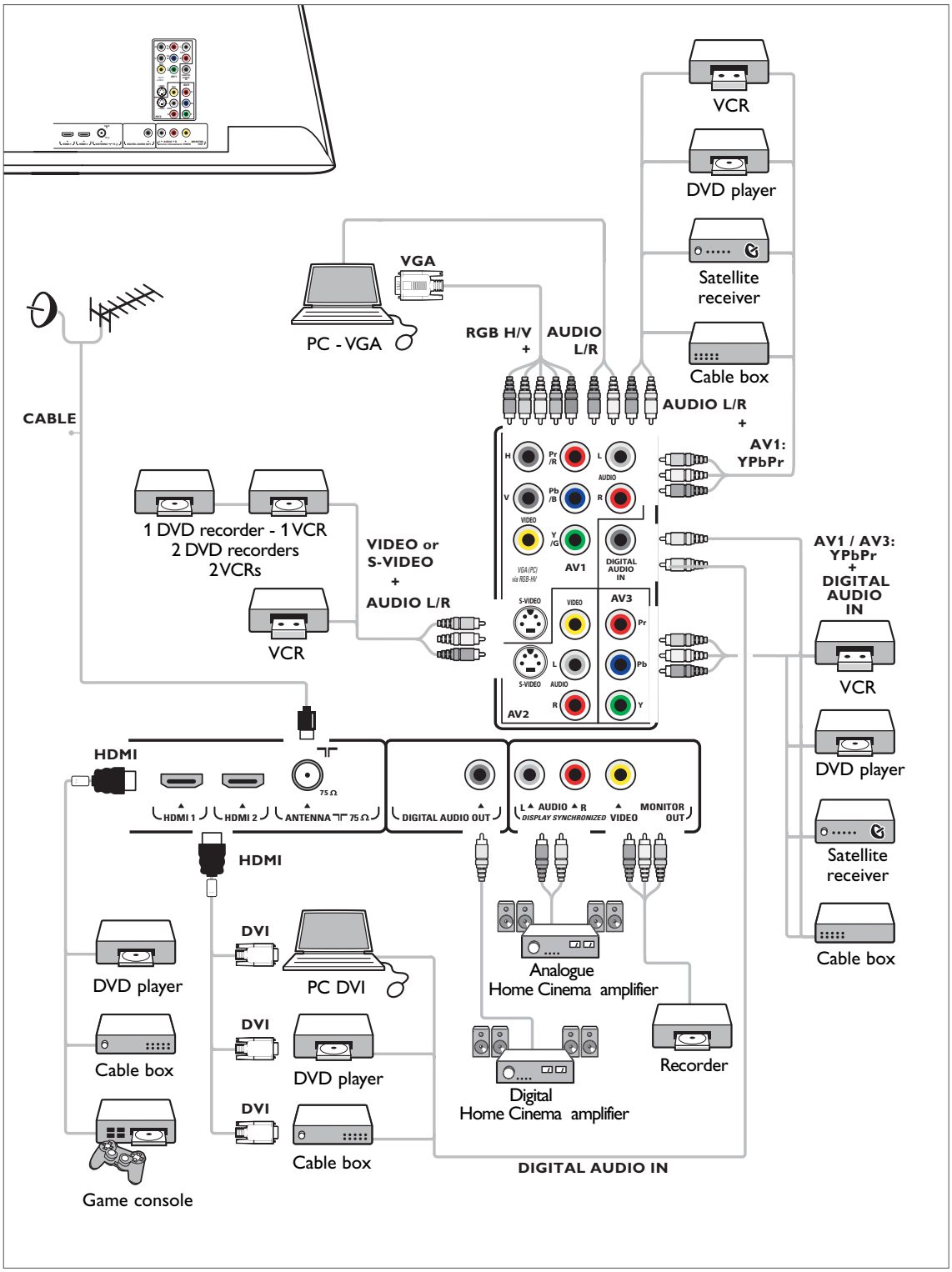
## Headphone

1. Insert the plug into the headphone socket as shown.
2. The headphone impedance must be between 8 and 4000 Ohm. The headphone socket has a 3.5 mm jack.
   In the Sound menu select **Headphone volume** to adjust the headphone volume.

**Tip**: Press on the remote control to switch off the internal loudspeakers of the TV.

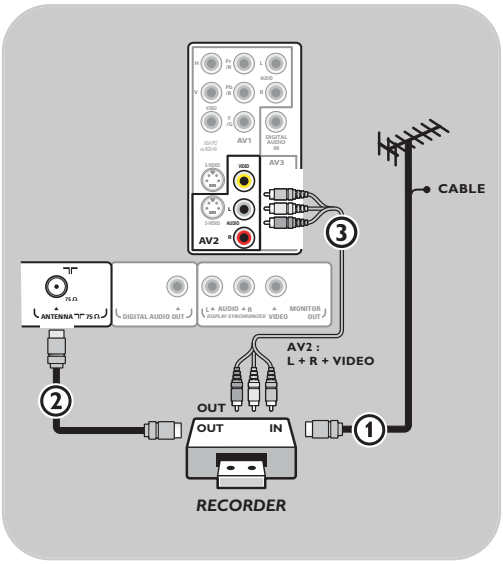
## USB

See Multimedia browser, p. 32.


VCR
DVD player
Satellite receiver
Cable box
VGA
PC - VGA
RGB H/V + AUDIO L/R
AUDIO L/R + AV1: YPbPr
CABLE
1 DVD recorder - 1 VCR
2 DVD recorders
2 VCRs
VCR
VIDEO or S-VIDEO + AUDIO L/R
AV1 / AV3: YPbPr + DIGITAL AUDIO IN
VCR
DVD player
Satellite receiver
Cable box
HDMI
HDMI 1
HDMI 2
ANTENNA 75 Ω
DIGITAL AUDIO OUT
AUDIO DISPLAY SYNCHRONIZED
VIDEO
MONITOR OUT
HDMI
DVD player
DVI
PC DVI
Analogue Home Cinema amplifier
Cable box
DVI
DVD player
Recorder
Digital Home Cinema amplifier
DVI
Cable box
Game console
DIGITAL AUDIO IN

# Connect a VCR or DVD recorder

**Warning**: do not place your recorder too close to the screen as some recorders may be susceptible for signals from the display. Keep a minimum distance of 0,5 m from the screen.




1. Connect the RF Antenna cable ① to the **RF IN** socket of your recorder.
2. Connect another RF cable ② from the output **OUT** of your recorder to the TV's input **CABLE/ANTENNA 75 Ω** jack.
3. Better playback quality can be obtained if you also connect the Video, Audio Left and Right (only for stereo devices) AV cables ③ to the **VIDEO**, **AUDIO L** and **R** input jacks of **AV2**.

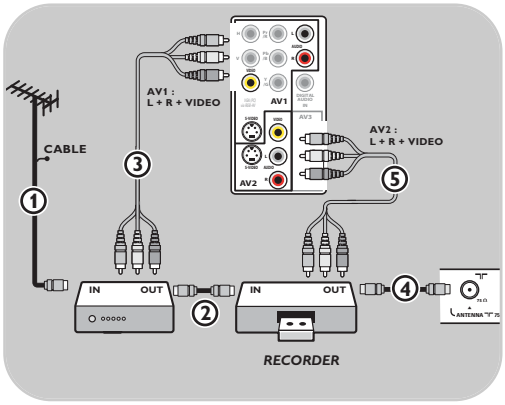
### If your recorder has an S-VHS video jack:

For improved picture quality, connect an S-video cable with the s-video input instead of connecting the recorder to the **VIDEO** jack of **AV2**.
S-Video does not provide audio, so audio cables must still be connected to provide sound.

**Note**:
- When using the **S-VIDEO** connector do not connect any device to the **AV2 VIDEO** or **AV1 VIDEO** input.

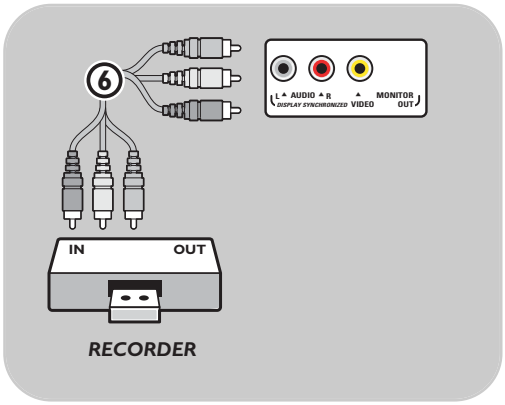
# Connect two VCRs or VCR and DVD recorder

**Note**: you can not record signals from equipment connected to the **YPbPr** input.




1. Connect the RF antenna cable ① of the **RF IN** socket of your other AV device.
2. Connect the RF output of the AV device to the RF input of the recorder ②.
3. Connect another RF cable ④ from the output **OUT** of your recorder to the TV's input 75 Ω ⊓ jack.
4. To obtain better picture quality, also connect the Video or S-Video, Audio left and Audio right cables of both devices to **AV1** (**VIDEO** or **S-VIDEO**, **AUDIO L** and **R**,) ③ and to **AV2** (**VIDEO** or **S-VIDEO**, **AUDIO L** and **R**) ⑤.

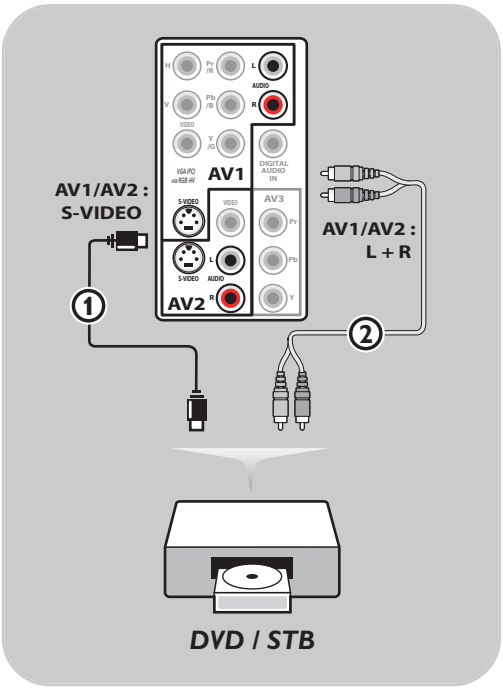
**Notes**:
- In case of mono equipment, only the left loudspeaker reproduces sound. Use a mono to stereo adaptor (not supplied) for sound reproduction via all internal loudspeakers.
- When using the **S-VIDEO** connector do not connect any device to the **AV2 VIDEO** or **AV1 VIDEO** input.




The **MONITOR OUT** connector can be used for a daisy chaining or to record programs from your TV ⑥. Only when a recorder is connected to **MONITOR OUT** it is possible to record an analog program from your TV. See Record with your recorder, p. 47.

# Connect a DVD player, a satellite receiver or Cable box

**Tip**: if necessary, you can adjust the picture position to the centre of the screen with the cursor keys.

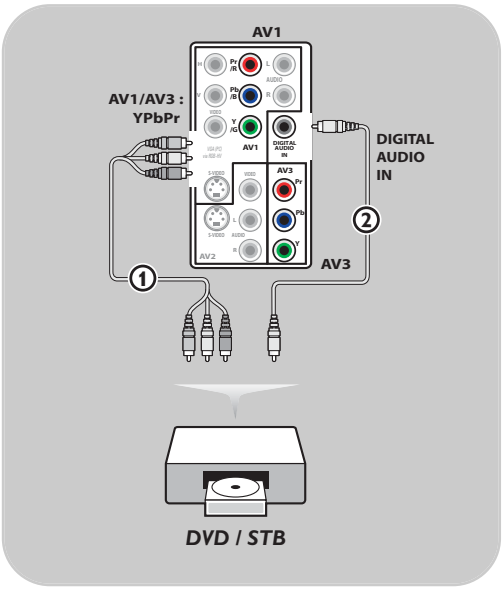



## With an S-Video connector

1. Connect an S-Video cable to the **AV1** or **AV2 S-VIDEO** input ①.

   **Note**: when using the **S-VIDEO** connector do not connect any device to the **AV2 VIDEO** or **AV1 VIDEO** input that you are using.

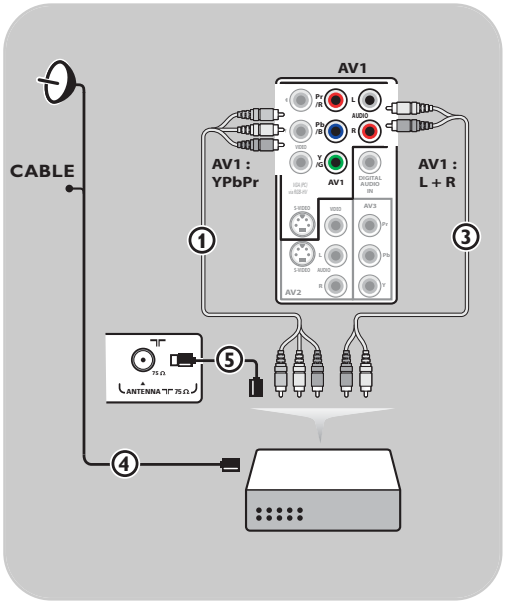
2. Connect the audio cables to the device's audio **L** and **R** jacks and to the **L** and **R AUDIO AV1** or **AV2** jacks ② on the TV accordingly to where you connected the S-Video cable.




## With Component Video Connectors

**- with digital audio :**

1. Connect the three separate component video cables ① to the YPbPr jacks on the DVD player and to the **Y**, **Pb** and **Pr** jacks of **AV1** or **AV3** on the TV.
2. Connect the audio cable ② to the digital out of the equipment and to the **DIGITAL AUDIO IN** connector of the TV.
3. Select the equipment you have connected in the Installation menu, Select your connections, p. 29, and link it to **AV1** or **AV3**. Also select **Digital audio in** in the same Connections menu and link it to **AV1** or **AV3**.




**- with analogue audio :**

1. In case of a DVD player with analogue audio, connect the three separate component video cables ① to the YPbPr jacks on the DVD player and to the **Y**, **Pb** and **Pr** jacks of **AV1** on the TV. Connect the audio cable to the DVD's audio **L** and **R** jacks and to the **L/R AUDIO** jack of **AV1** ③.
2. In case of a cable box and/or a satellite receiver also connect the cable TV cable and/or the satellite antenna cable ④ and the aerial cable ⑤.

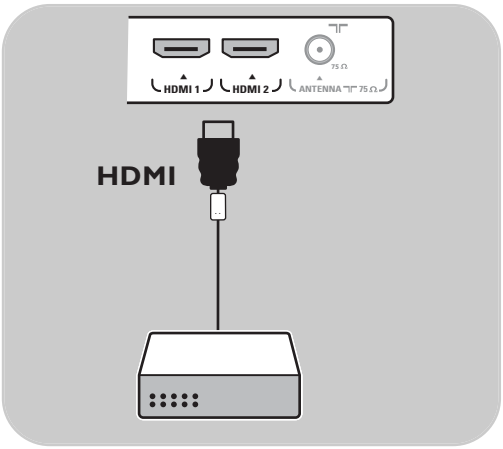
**Notes**:
- cables are often colour coded. Connect red to red, white to white, etc..;
- the labels for the component video sockets may differ depending on the DVD player connected. Although the abbreviations may vary, the letters B and R stand for the blue and red component signals, respectively, and Y indicates the luminance signal. Refer to the DVD player's instructions for use for definitions and connection details;
- to get an optimal viewing, it is advised to switch your equipment to the highest possible supported display modes.

**Warning**: in case you notice scrolling images, wrong colours or no colour, no picture, or even combinations of these on your screen, verify if the connections are done in the correct way and if the resolution and the signal standard of the connected equipment are set in the right way. See the handbook for your equipment.

**Note:**
- This television is designed to accept high definition signal standards 480p, 576p, 720p and 1080i as specified by the Electronic Industries Association standard EIA770.3.
  Digital devices from different manufacturers have the possibility of differing output standards which may cause difficulties for the television to properly display.

## Connect a DVD player, Cable box or game console

**Tip**: if necessary, you can adjust the picture position to the centre of the screen with the cursor keys.




### With a HDMI connector

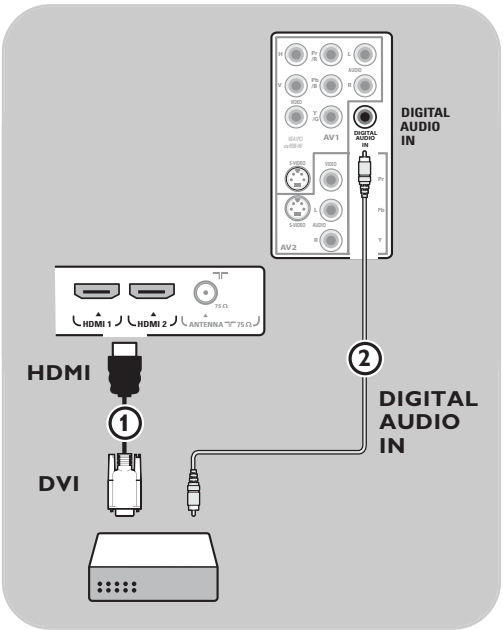
HDMI is the leading new standard for Digital video and audio interconnection.

1. Connect your equipment with the **HDMI** connector.
2. Select the equipment you have connected in the Installation menu, Select your connections, p. 29, and link it to **HDMI 1** or **2**.

**Note**: in case of any problems, see Annex 5: Issues referring to connected peripherals with a HDMI connector, p. 57.

## Connect a DVD player or Cable box

**Tip**: if necessary, you can adjust the picture position to the centre of the screen with the cursor keys.



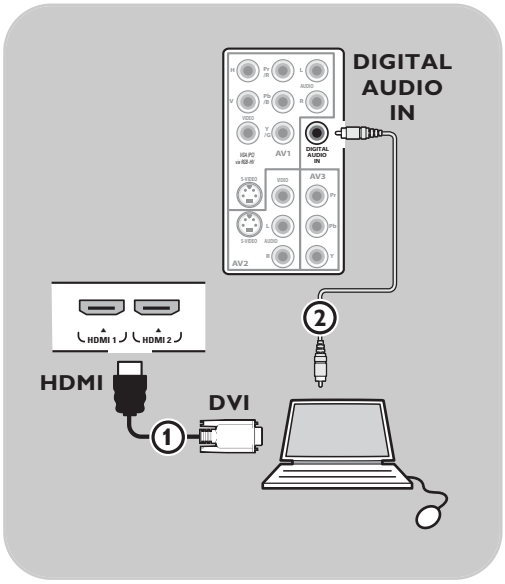

### With a DVI connector

**Note**: only a DVD player with DVI with digital sound can be connected to the **HDMI** connector.

1. Connect the DVI to HDMI cable to one of the HDMI connectors of your TV ①.
2. Connect the audio cable ② to the **DIGITAL AUDIO IN** connector of the TV.
3. Select the equipment you have connected in the Installation menu, Select your connections, p. 29, and link it to **HDMI 1** or **2**.
4. Also select **Digital audio in** in the same Connections menu.

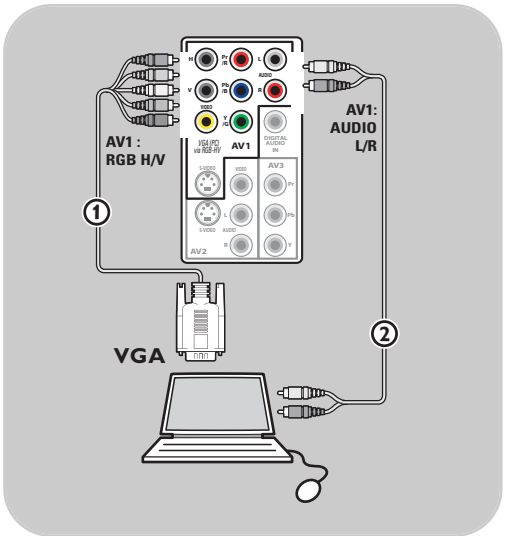
# Connect a PC

**Notes:**
- only a PC with digital sound can be connected to the **HDMI** connection;
- before connecting your PC to the TV, select your PC monitor settings to a refresh frequency of 60 Hz;
- supported PC monitor modes:
  VGA 640 x 480
  SVGA 800 x 600
  XGA 1024 x 768




**PC equipped with a DVI connector:**

1. Use a DVI to HDMI cable to connect to one of the **HDMI** connectors of your TV ①.
2. Connect the audio cable ② to the **DIGITAL AUDIO IN** connector of the TV.
3. Select the equipment you have connected in the Installation menu, Select your connections, p. 29, and link it to **HDMI 1** or **2**.
4. Also select **Digital audio in** in the same Connections menu.

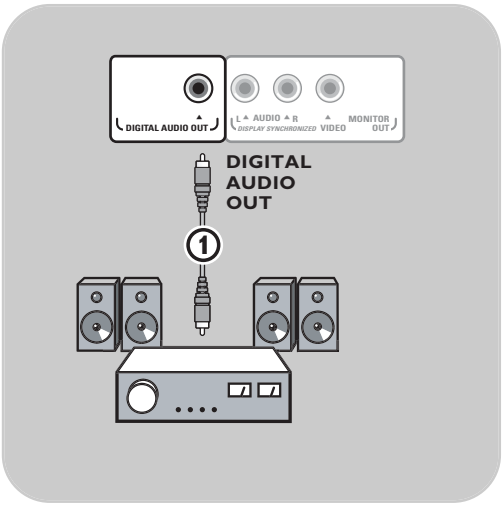



**PC equipped with a VGA connector:**

1. Use a VGA to RGB H/V cable ① to connect to the **RGB H/V** connectors of your TV.
2. Connect the audio cable ② to the **AUDIO R** (right) and **L** (left) inputs of the TV.
3. Select the equipment you have connected in the Installation menu, Select your connections, p. 29.

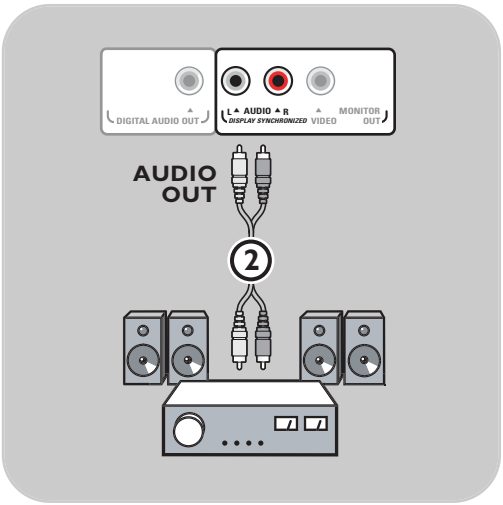
# Connect a Home Cinema amplifier

**Tip**: to avoid visible delay between picture and sound, use the **DIGITAL AUDIO OUT** connector to connect your Home Cinema amplifier.




## Digital Home Cinema amplifier

- Connect a digital Home Cinema amplifier to the **DIGITAL AUDIO OUT** connector ① at the bottom of the TV.




## Analogue Home Cinema amplifier

- Connect your Home Cinema amplifier to the **AUDIO OUT L** and **R** connectors ② at the bottom of the TV.

## Select connected equipment

Before operating your connected equipment you have to make a selection in the Installation, Select your connections menu, p. 47.

1. Press the **MENU/BROWSE** key.
2. Select **TV Menu** and press the cursor right.
3. Select **Installation**.
4. Press the cursor right.
5. Select **Connections**.
6. Press the cursor right.
7. Select the input to which the peripheral equipment is connected.
8. Press the cursor right again to enter the list of types of peripherals connected to the selected input
9. Select the peripheral equipment with the cursor up/down.

## Record with your recorder

### Record a TV programme

You can record a TV programme using your recorders tuner without affecting your TV.

1. Select the channel number on your recorder.
2. Set your recorder to record.
   See the handbook for your recorder.

**Note**: switching channel numbers on your TV does not disturb recording !

### Record a programme from MONITOR OUT

You can record a programme on your recorder from the TV tuner via **MONITOR OUT**.

1. Switch on the device.
2. Select the channel or wanted device on your TV and the correct input on your recorder.
3. Select your recorder to record.
   You record the tuner channel of the TV or selected device.

**Note**: do not switch channels or turn off your TV when you are recording through **MONITOR OUT**.

# Audio- and video equipment keys

Most of the audio and video equipment from our range of products can be operated with the remote control of your TV.

- Press one of the keys after you pressed one of the mode keys (**DVD**, **STB**, **VCR**, **AUX**) according to the equipment you want to operate with this remote control.
  See Use of the Remote control, p. 5-6.

| | |
|---|---|
| ⏻ | to switch to standby |
| ● | for record, |
| ◀◀ | for rewind (**VCR**, **CD**); search down (**DVD**) |
| ■ | for stop, |
| ▶ | for play, for pause |
| ▶▶ | for fast forward (**VCR**, **CD**); search up (**DVD**) |
| i+ | to display information |
| **MENU/BROWSE** | to switch the menu on or off |
| **- P +** | for chapter, channel, track selection |
| **0 to 9** | digit entry, |
| cursor up/down | to select the next or the previous disc (**CD**) |
| cursor left/right | to select the previous or following track (**CD**) |
| P↤P | to select a DVD title/chapter; index (**AUX**) |
| ☰ | to select your choice of subtitle language (**DVD**) |

**Normal mode** : if no action is being undertaken within 30 seconds, the remote control returns to TV mode.

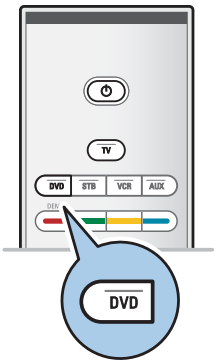
**Expert mode :** in Expert mode the remote will stay in the selected mode even when the 30 seconds time-out is elapsed.

To select between Normal and Expert mode :

1. Select TV mode with the TV key.
2. Press the **OK** key simultaneously with the 🔇 key for four seconds.
   - ▹ When the ⏻ key is On for one second, the Expert mode is selected and the remote control will remain in the mode selected.
3. Select the desired mode **(DVD, STB, VCR, AUX)**.
4. To go back to the TV mode, select **TV** and repeat steps 1. to 3.

| Symptom | Possible cause/Remedy |
|---|---|
| **No picture** | ◦ Verify if the supplied cables are connected properly. (The aerial cable to the TV, the other aerial to your recorder, the power cables, ..)<br>◦ Verify if you selected the correct source.<br>◦ Verify if the child lock has been switched off. |
| **Poor picture** | ◦ Verify in the Manual installation menu if you have selected the correct TV system.<br>◦ Verify if your TV or house aerial isn't located too close to loudspeakers, non-earthed audio equipment or neon lights, etc.<br>◦ Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial.<br>◦ Is the picture or teletext unrecognisable. Verify if you have entered the correct frequency. See Installation, Manual installation, p. 26. |
| **Poor colour** | ◦ Select Factory settings in the Installation menu.<br>◦ Verify the connections between the optional equipment and the TV. |
| **No sound** | ◦ Verify if the volume isn't at minimum.<br>◦ Verify if the sound hasn't been muted with the 🔇 key.<br>◦ Verify the connections between the optional equipment and the TV. |
| **The remote does not function** | ◦ Verify if the remote is set correctly for the equipment your are using.<br>◦ Verify if the batteries are not dead. Replace the batteries. You can still use the keys at the right side of the TV.<br>◦ Select **TV** mode on your remote control. |
| **The remote of connected equipment does not function well** | ◦ The infrared signals of the screen may influence the reception sensibility of other peripherals. Solution: replace the batteries of the remote of other peripheral equipment. |
| **No photo or music play or in poor quality** | ◦ Verify if the source complies with a supported code. |
| **No stable or not synchronised VGA picture** | ◦ Verify if you have selected the correct VGA mode in your PC. See Connect a PC, p. 45.<br>◦ Verify the connections between the PC and the TV. |
| **No solution found for your picture or sound problem** | ◦ Switch off your TV off and then on again once. Never attempt to repair a defective TV yourself. Verify with your dealer or call a TV technician. |
| **Red blinking led** | ◦ Unplug the mains cord for 10 seconds and insert it in again. |

# Annex 1: To set the remote control to work a Philips DVD or DVD-R




Your TV remote control gives you the opportunity to control your Philips DVD or DVD-R with one single remote control.

1. Press the **DVD** mode key for 4 seconds until the LED lights up constantly.
2. Enter the code 500 with the digit keys for a Philips DVD player.
   Enter the code 542 with the digit keys for a Philips DVD recorder.

▹ All mode LEDs will blink fast for 3 seconds as a confirmation you entered the correct code.
If you entered a wrong code all mode LEDs will stay on for 2 seconds. Redo step 2.

▹ Your remote control is in the DVD or DVD-R mode.

## To cancel the selected mode

◦ Press the DVD mode key for 4 seconds.

▹ The remote control will return to **TV** mode.

### Introduction

Philips offers software upgrade capability for your TV using portable memory. After you have completed a software upgrade, your TV will typically perform better.
What improvements are made depends on the upgrade software you are using as well as the software your TV contained before the upgrade.
You can execute the software upgrade procedure yourself. Be aware that the content of this document is addressing technical or software skilled users.

### To prepare a portable memory for software upgrade

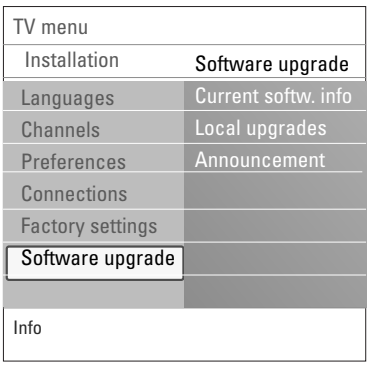
For the procedure you will require:
- a personal computer with web browsing capability;
- an archive utility that supports the ZIP-format (e.g. WinZip for Windows or Stuffit for Mac OS);
- a preferably empty USB memory stick.

**Note**: only FAT/DOS-formatted portable memory is supported.

New software can be obtained from your dealer or can be downloaded from the www.philips.com/support website:

1. Go to **www.philips.com/support** using the web browser on your PC.
2. Follow the procedure to find the information and the software related to your TV.
3. Select the latest software upgrade file and download it to your PC.
4. Decompress the ZIP-file and copy the file "autorun.upg" to the root directory of the USB portable memory.

**Note**: only use software upgrades that can be found on the www.philips.com/support web site.

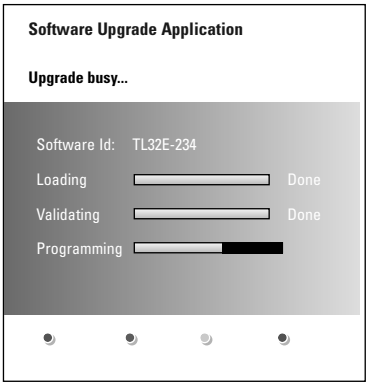



### To verify the version of the TV software

Before you start the software upgrade procedure, it is advised to check what the current TV software is.

1. Select **Software Upgrade** in the TV menu, Installation, Software upgrade.
2. Press the cursor right.
   ▹ The Software Upgrade menu moves to the left panel.
3. Select **Current Software Info** to observe the version and the description of the current software.

# Annex 2 (Continued)



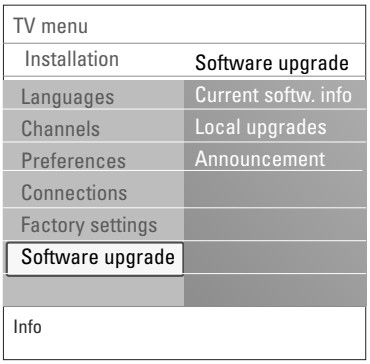

## Automatic software upgrade procedure

1. Switch off your TV and remove all memory devices.
2. Insert the USB portable memory that contains the downloaded software upgrade.
3. Switch on your TV with the power key ⏻ at the side of the TV.
4. At startup the TV will scan the USB portable memory until it finds the update content. The TV will automatically go to the upgrade mode. After a few seconds it will display the status of the upgrade procedure.

**Warning**:
- you are not allowed to remove the USB portable memory during the software upgrade procedure;
- in case of a power drop during the upgrade procedure, don't remove the USB portable memory from the TV. The TV will continue the upgrade as soon as the power comes back;
- if you try to upgrade to a software version lower than the current version, a confirmation will be asked. Downgrading to older software should only be done in case of real necessity;
- if an error occurs during the upgrade you should retry the procedure or contact your dealer;
- the automatic software upgrade procedure will only start if the version on the USB portable memory is different from the one in the TV.

5. When the software upgrade was successful, remove the USB portable memory and restart your TV with the power switch ⏻ at the side of the TV.
Your TV will start up with the new software.

**Note**: once the upgrade is finished use your PC to remove the TV software from your USB portable memory.




**Manual software upgrade procedure**

For a manual software upgrade copy the "autorun.upg" file in a directory called "Upgrades" located in the root of the USB portable memory. You can rename the file if you like but keep the .upg extension.

1. Insert the portable memory that contains the downloaded software upgrade.
2. Select **Software Upgrade** in the Installation menu. Go to Local upgrades.
   The TV will list all compatible software available on the USB portable memory and display the data for each selected upgrade version.
3. Select the correct upgrade version and press the red colour key to start the upgrade.
   Your TV will restart and will automatically go to the upgrade mode. After a few seconds it will display the status of the upgrade procedure.

**Warning**: if you try to upgrade to a software version equal or lower than the current version, a confirmation will be asked. Downgrading to older software should only be done in case of real necessity.

4. When the software upgrade was successful, remove the USB portable memory and restart your TV with the power switch ⏻ at the side of the TV. Your TV will start up with the new software.

# Annex 3 - Philips TV-Slideshow Format with background music

**Notes**:
- the latest version of this document can be found on the Philips support website (www.philips.com/support).
  Use the type number of your TV to find this documentation and other related files.
- Philips can't be held responsible for any problems that may occur as a result of the content in this document. Errors reported to Philips will be adapted and published on the Philips support website as soon as possible.

## Introduction

This document explains how to make a Philips slideshow file with background audio.
Be aware that the content of this document is addressing technical or software skilled users.
To start the slideshow open the slideshow file in the Multimedia browser of your TV.

1. Press the **MENU/BROWSE** key on the remote control after having inserted a USB device and switched on the TV.
2. Go to where you stored the slideshow file (.alb) on your portable memory.
3. Select the slideshow file and press the ok key to start the slide show.
4. To stop a slide show, press the ■ key.

## General Rules

- The slideshow will use plain ASCII XML syntax to allow the creation and editing of the slideshow files using simple tools.
- All references to network content must be based on the global address of the content.
- Content on a Portable Memory (PM) doesn't have a global address; as a result content from a PM can never be referenced from a slideshow not stored on the PM itself.
- To maintain portability, a slideshow stored on a PM should ONLY reference content on the same PM. Referencing global addresses can result in inconsistencies if the PM is used on a non-networked CE device. The latter is however not forbidden, it is only a recommendation.
- It is preferable that URL's referencing PM content are based on a relative path starting from the directory where the slideshow is stored. This path includes the device or drive name of the PM. An absolute path to content will also be supported.
  - relative path: pictures\test1.jpg, tamper.jpg, ..\new\bird.jpg, …
  - absolute path: USB1:\pictures1\foo_bar.jpg, C:\f1.jpg, \organization.jpg, …

## General Format

The format and syntax below will be used to create the slideshow file (simple ascii text) with the extension .alb (.ALB). Examples: slshow1.alb, summer_holiday_2004.ALB, test.alb, …
The following syntax should be used to create the text file:

```
<?xml version="1.0" encoding="ISO-885h9-1" ?>
<philips-slideshow version="1.0" >
  <title>Title of the slideshow</title>
  <audio>audio_url</audio>
  <slide-duration>30</slide-duration>
  <slides>
    <slide>slide_1_url</slide>
    <slide>slide_2_url</slide>
    <slide>slide_3_url</slide>
    <slide>slide_4_url</slide>
    <slide>slide_5_url</slide>
    <slide>slide_6_url</slide>
    ...
    <slide>slide_N-1_url</slide>
    <slide>slide_N_url</slide>
  </slides>
</philips-slideshow>
```

### Supported XML-tags

The following table gives a description of the XML syntax.

| Tag Name | Use | Description |
|---|---|---|
| philips-slideshow | mandatory | Philips slideshow signature including the version. |
| title | optional | The title of the playlist. |
| audio | optional | The audio-URL following this tag will define the music playing in the background during the slideshow.<br>A single song or playlist (.m3u & .pls) are the only valid audio references. Other reference will not result in any audio playback. If a single song is referenced the song will be repeated forever. If a playlist is referenced the playlist will be played in sequence with a repeat at the end of the playlist. |
| slide-duration | optional | The default display time (in 0,1 second) of a slide. The TV application isn't obliged to support this tag. The TV application can force the use of one or multiple predefined display times. |
| slides | mandatory | Identifies the slides to show. |
| slide | optional | Identifies the URL of the individual slide. |

### Examples:

See on this CD in the directory Files/Slideshw/....
Copy the directory with the slideshow files to your portable memory.

```
<?xml version="1.0" encoding="ISO-885h9-1" ?>
<philips-slideshow version="1.0" >
  <title>Philips AlbumFile</title>
  <audio>Music\Nature.mp3</audio>
  <slide-duration>50</slide-duration>
  <slides>
    <slide>Images\Image01.jpg</slide>
    <slide>Images\Image02.jpg</slide>
    <slide>Images\Image03.jpg</slide>
    <slide>Images\Image04.jpg</slide>
    <slide>Images\Image05.jpg</slide>
    <slide>Images\Image06.jpg</slide>
    <slide>Images\Image07.jpg</slide>
    <slide>Images\Image08.jpg</slide>
    <slide>Images\Image09.jpg</slide>
    <slide>Images\Image10.jpg</slide>
    <slide>Images\Image11.jpg</slide>
    <slide>Images\Image12.jpg</slide>
  </slides>
</philips-slideshow>
```

# Annex 4 - Philips TV - Digital camera and USB issues

**Notes**:
- the latest version of this document can be found on the Philips support website (www.philips.com/support);
- the software of your TV is upgradeable. If you have problems first check if you have the latest software installed on your TV. The latest software, together with instructions, can be found on the Philips support website. Use the type number of your TV to find this documentation and other related files.
- Philips can't be held responsible neither for any errors in the content of this document nor for any problems as a result of the content in this document. Errors reported to Philips will be adapted and published on the Philips support website as soon as possible.

## Digital Camera Issues

If a USB connection between your digital camera and the TV isn't working, you can try the solutions below to resolve your problem.

- Make sure your digital camera is switched on and verify if the configuration of your digital camera is correct (see the manual of your digital camera for more information).
- Some digital cameras allow you to switch off the USB interface. Make sure that the USB interface is switched on before connecting to the TV.
- If you have a digital camera with only internal memory (no removable memory) you can try to copy the content manually to a USB memory device using a personal computer.
- Some digital cameras allow you to switch between PTP (Picture Transfer Protocol) or "PC Link" and USB Mass Storage. Make sure that you select USB Mass Storage or "PC Drive" on your digital camera.
- If your camera supports different interface settings be sure to try them one by one or contact the reseller of your camera to find out the correct setting.

## USB Memory Device Issues

- Devices connected to the USB port of your TV must be "Mass Storage Class" compliant. If your device (digital camera. MP3 player, portable harddisk, …) is not "Mass Storage Class" compliant it will not be detected by the content browser of the TV.
- The following subsets of the Mass Storage Class specification are supported:
  The implementation of the TV is based on the "Universal Serial Bus Mass Storage Class Specification Overview" (v1.2, June 23, 2003) including all documents referenced by the document. The document can be found on the USB standardisation website (www.usb.org).
  Full support of the USB Mass Storage Class Bulk-Only Transport (bInterfaceProtocol = 50h).
  Full support of SubClass Code = 05h; SFF-8070i spec.
  Full support of SubClass Code = 06h; SCSI transparent command set.
- For large USB memory devices, when you are in the Content Browser, it may take a long time before you can access your files.
- When using a USB portable harddisk: Due to the high power consumption of the harddisk, it is advised to use the external power supply of the portable harddisk to guarantee proper working under all conditions.

## Annex 5: Issues referring to connected peripherals with a HDMI conector

The **HDMI IN** connector allows the following TV and monitor display modes:

| | | |
|---|---|---|
| **HD** | Standard Definition TV (SDTV) | 640x480i<br>720x480i<br>720x576i |
| | Enhanced Definition TV (EDTV) | 640x480p<br>720x480p<br>720x576p |
| | High Definition TV (HDTV) | 1920x1080i<br>1280x720p |

| | | |
|---|---|---|
| **PC** | VGA | 640x480 |
| | SVGA | 800x600 |
| | XGA | 1024x768 |

- If necessary, you can adjust the picture position to the centre of the screen with the cursor keys.
- Due to legal requirements, it is possible that with certain copy protected PCM audio qualities from a peripheral equipment connected to the **HDMI** input, the Digital audio output signal is muted.
- Your TV supports HDCP (High-bandwidth Digital Content Protection). This is a system for protecting DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source (DVD, PC, etc.) and your TV. Content is encrypted at the source peripheral equipment to prevent unauthorised copies from being made.
- Proper working is only guaranteed with HDMI compliant consumer products.
- Digital peripheral equipment from different manufacturers have the possibility of differing output standards which may cause difficulties for the television to properly display.
- In case no signal is detected from your HDMI equipment, switch off the HDMI equipment and then on again.
  To get an optimal viewing, it is advised to switch your DVD player, Blu-Ray of HD settop box to the highest possible supported display modes.

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# Recycling

## Recycling

The packaging of this product is intended to be recycled. Apply to the local authorities for correct disposal.

### Disposal of your old product

Your product is designed and manufactured with highly quality material and components, which can be recycled and reused.

When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/976/EC.

Please inform yourself about the local separate collection system for electrical and electronic products. Please act according to your local rules and do not dispose of your old products with your normal household waste.

The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

## Disposal of batteries

The batteries supplied do not contain the heavy metals mercury and cadmium. Please check on how to dispose of exhausted batteries according to local regulations.

# Product information

- Your TV consumes energy in standby mode. Energy consumption contributes to air and water pollution. Very low standby power consumption.
- Specifications: see the product leaflet on www. philips. com/support.
- If you need further assistance, please call the customer support service in your country. The corresponding telephone numbers and addresses are given in the supplied Worldwide guarantee booklet.